National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY, ALPHEX ELECTRONICS PRIVATE LIMITED, NO. 633, GROUND FLOOR, SSI PHIRNI ROAD, MUNDKA INDUSTRIAL AREA, MUNDKA, DELHI, 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	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	pH	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Fine Aggregates	Sulphate Sontent	BS 812 (Part 118)
7	CHEMICAL- BUILDING MATERIAL	Fine Aggregates	Water Soluble Chloride	BS 812 (Part 117)
8	CHEMICAL- BUILDING MATERIAL	Micro Silica/Silica Fumes	Loss on Ignition	IS 1727
9	CHEMICAL- BUILDING MATERIAL	Micro Silica/Silica Fumes	Moisture	IS 15388
10	CHEMICAL- BUILDING MATERIAL	Micro Silica/Silica Fumes	Silicon Dioxide as SiO2	IS 1727
11	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Insoluble Residue	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Loss on Ignition	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Magnesia (MgO)	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Sulphuric Anhydride (as SO3)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Water Proofing Compounds	Chloride Content	IS 6925
16	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Aluminium Section	Anodic Coating	IS 5523
17	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metals, Armouring Wires & Strips	Mass of Zinc Coating	IS 6745

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18	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metals, Armouring Wires & Strips	Uniformity of Zinc Coating	IS 2633
19	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel (Mild Steel, G.I. Conduit Pipe, M.S Conduit Pipe)	Carbon	IS 228 (Part 1)
20	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel (Mild Steel, G.I. Conduit Pipe, M.S Conduit Pipe)	Manganese	IS 228 (Part 2)
21	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel (Mild Steel, G.I. Conduit Pipe, M.S Conduit Pipe)	Phosphorous	IS 228 (Part 3)
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel (Mild Steel, G.I. Conduit Pipe, M.S Conduit Pipe)	Silicon	IS 228 (Part 8)
23	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel (Mild Steel, G.I. Conduit Pipe, M.S Conduit Pipe)	Sulphur	IS 228 (Part 9)
24	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1)
25	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6)
26	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part 2)
27	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7)
28	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part 5)
29	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 228 (Part 3)
30	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8)
31	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part 9)
32	CHEMICAL- WATER	Water for Construction Purpose	Chloride	IS 3025 (Part 32)
33	CHEMICAL- WATER	Water for Construction Purpose	Inorganic Solids	IS 3025 (Part 16)
34	CHEMICAL- WATER	Water for Construction Purpose	Limit of Acidity (Volume of 0.02 normal NaOH required to Neutralize 100 ml Sample of Water using Phenolphthalein as an Indicator)	IS 3025 (Part 22)

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35	CHEMICAL- WATER	Water for Construction Purpose	Limit of Alkalinity (Volume of 0.02 N Sulphuric Acid required to Neutralize 100 ml Sample using Mixed Indicator)	IS 3025 (Part 23)
36	CHEMICAL- WATER	Water for Construction Purpose	Organics Solids	IS 3025 (Part 18)
37	CHEMICAL- WATER	Water for Construction Purpose	pH	IS 3025 (Part 11)
38	CHEMICAL- WATER	Water for Construction Purpose	Sulphate (as SO3)	IS 3025 (Part 24, Section 1)
39	CHEMICAL- WATER	Water for Construction Purpose	Suspended Matter	IS 3025 (Part 17)
40	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Block Density	IS 6441 (Part 1)
41	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Dimensions (Height)	IS 2185 (Part 3)
42	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Dimensions (Length)	IS 2185 (Part 3)
43	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Dimensions (Width)	IS 2185 (Part 3)
44	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility Test	IS 1208
45	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
46	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test at 25 ºC	IS 1203
47	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
48	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in Trichloroethylene	IS 1216
49	MECHANICAL- BUILDINGS MATERIALS	Building Stone/ Granite/ Marble	Water Absorption	IS 1124
50	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Compressive Strength	IS 3495 (Part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions (Height)	IS 1077
52	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions (Length)	IS 1077
53	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions (Width)	IS 1077
54	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Efflorescence	IS 3495 (Part 3)

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55	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Water Absorption	IS 3495 (Part 2)
56	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile (Wall Tile/ Floor Tile/ Vitrified Tile)	Modules of Rupture	IS 13630 (Part 6)
57	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile (Wall Tile/ Floor Tile/ Vitrified Tile)	Breaking Strength	IS 13630 (Part 6)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 1)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Abrasion value	IS 2386 (Part 4)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material (Clay Lumps)	IS 2386 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material (Coal & Lignite)	IS 2386 (Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material (Material Finer than 75 µ)	IS 2386 (Part 1)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material (Shale & Mica)	IS 2386 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material (Soft Fragments/ Particles)	IS 2386 (Part 1)
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer than 75 micron	IS 2386 (Part 1)
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurities	IS 2386 (Part 2)
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 125 mm, 90 mm, 63 mm, 45 mm, 40 mm, 22.4 mm, 20 mm, 12.5 mm, 10 mm, 4.75 mm, 2.36 mm)	IS 2386 (Part 1)

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73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (by Magnesium Sulphate)	IS 2386 (Part 5)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (by Sodium Sulphate)	IS 2386 (Part 5)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
76	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
77	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (Part 1, Section 1)
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 (Part 1)
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part 2)
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 600 µ, 300 µ, 150 µ)	IS 2386 (Part 1)
82	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (by Magnesium Sulphate)	IS 2386 (Part 5)
83	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (by Sodium Sulphate)	IS 2386 (Part 5)
84	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
85	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
86	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Compressive Strength at 28 Days	IS 1727
87	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness (By Blaine's Permeability Method)	IS 1727
88	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Lime Reactivity - Average Compressive Strength	IS 1727
89	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Particle Retained on 45 µ IS Sieve (Wet Sieving)	IS 1727
90	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness by Autoclave Test - Expansion of Specimen	IS 1727

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91	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Compressive Strength	IS 3495 (Part 1)
92	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions (Height)	IS 13757
93	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions (Length)	IS 13757
94	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions (Width)	IS 13757
95	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Efflorescence	IS 3495 (Part 3)
96	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Water Absorption	IS 3495 (Part 2)
97	MECHANICAL- BUILDINGS MATERIALS	Granite	Density	IS 13030
98	MECHANICAL- BUILDINGS MATERIALS	Granite	Moisture Content	IS 13030
99	MECHANICAL- BUILDINGS MATERIALS	Granite	Specific Gravity	IS 1124
100	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Compressive Strength	IS 4031 (Part 6)
101	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Consistency	IS 4031 (Part 4)
102	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Density	IS 4031 (Part 11)
103	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Fineness- By Dry Sieving Method	IS 4031 (Part 1)
104	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Fineness-By Blain Air	IS 4031 (Part 2)
105	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Setting Time (Final)	IS 4031 (Part 5)
106	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Setting Time (Initial)	IS 4031 (Part 5)
107	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Soundness - By Auto Clave expansion method	IS 4031 (Part 3)
108	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement (OPC)/Portland Slag Cement (PSC)	Soundness- By Le-Chatlier Method	IS 4031 (Part 3)
109	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658

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110	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
111	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Density	IS 4031 (Part 11)
112	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Drying Shrinkage	IS 4031 (Part 10)
113	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Fineness-By Dry Sieving	IS 4031 (Part 1)
114	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Compressive Strength	IS 4031 (Part 6)
115	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Consistency	IS 4031 (Part 4)
116	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Fineness- By Blaine Air	IS 4031 (Part 2)
117	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Setting Time (Final)	IS 4031 (Part 5)
118	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Setting Time (Initial)	IS 4031 (Part 5)
119	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Soundness - By Auto Clave expansion method	IS 4031 (Part 3)
120	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement (PPC)	Soundness-By Le-Chatelier Method	IS 4031 (Part 3)
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement	Bend Test (8 mm to 40 mm)	IS 1599
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement	Mass	IS 1786
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement	Percentage Elongation after Fracture	IS 1608 (Part 1)
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement	Rebend Test (8 mm to 40 mm)	IS 1786
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement	Tensile Strength at Room Temperature	IS 1608 (Part 1)
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement	Yield Strength	IS 1608 (Part 1)

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127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement, Structural Steel	Hardness (HRB)	IS 1586 (Part 1)
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Concrete Reinforcement, Structural Steel	Hardness (HRC)	IS 1586 (Part 1)
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Bend Test	IS 1599
130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Elongation	IS 1608 (Part 1)
131	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Tensile Strength	IS 1608 (Part 1)
132	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Yield Strength	IS 1608 (Part 1)
133	MECHANICAL- SOIL AND ROCK	Soil	CBR Test	IS 2720 (Part 16)
134	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Internal friction) (Ø)	IS 2720 (Part 13)
135	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion Value)	IS 2720 (Part 13)
136	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
137	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve Size: 4.75 mm, 2.0 mm, 0.425 mm, 0.075 mm)	IS 2720 (Part 4)
138	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 7)
139	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test (MDD)	IS 2720 (Part 7)
140	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 8)
141	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test (MDD)	IS 2720 (Part 8)
142	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)

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143	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
144	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section I & II)