National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BINDTECH CONCRETE RESEARCH PRIVATE LIMITED, NO.70, SATHYAMOORTHY ROAD, LAKSHMANA NAGAR, KANDHANCHAVADI, CHENNAI, TAMIL NADU, 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 Testing				
1	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Alkali-Silica Reactivity 1 Reduction in alkainity	IS 2386 (Part 7)
2	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Alkali-Silica Reactivity 2. Silica released	IS 2386 (Part 7)
3	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Sulphates as So32-	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Ash Content	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Chloride content	IS 6925
6	CHEMICAL- BUILDING MATERIAL	concrete admixture	Dry Material Content	IS 9103
7	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Relative Density	IS 9103
8	CHEMICAL- BUILDING MATERIAL	concrete admixtures	pH value	IS 9103
9	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Alkali-Silica Reactivity 1 Reduction in alkainity	IS 2386 (Part 7)
10	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Alkali-Silica Reactivity 2. Silica released	IS 2386 (Part 7)
11	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Sulphates as (SO3)2-	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	IS 1727
13	CHEMICAL- BUILDING MATERIAL	fly ash	Silica (SiO2)	IS 1727
14	CHEMICAL- BUILDING MATERIAL	flyash	Calcium Oxide	IS 1727
15	CHEMICAL- BUILDING MATERIAL	flyash	Chloride	IS 1727
16	CHEMICAL- BUILDING MATERIAL	Flyash	Combined Iron and Aluminium Oxides	IS 1727

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17	CHEMICAL- BUILDING MATERIAL	flyash	Magnesium Oxide	IS 1727
18	CHEMICAL- BUILDING MATERIAL	flyash	Sulphuric anhydride	IS 1727
19	CHEMICAL- BUILDING MATERIAL	GGBS	Alumina (Al2O3)	IS 4032
20	CHEMICAL- BUILDING MATERIAL	GGBS	Calcium Oxide	IS 4032
21	CHEMICAL- BUILDING MATERIAL	GGBS	Chloride	IS 4032
22	CHEMICAL- BUILDING MATERIAL	GGBS	Insoluble residue	IS 4032
23	CHEMICAL- BUILDING MATERIAL	GGBS	Iron oxide	IS 4032
24	CHEMICAL- BUILDING MATERIAL	GGBS	Loss on Igniton	IS 4032
25	CHEMICAL- BUILDING MATERIAL	GGBS	Magnesium Oxide	IS 4032
26	CHEMICAL- BUILDING MATERIAL	GGBS	Silica (SiO2)	IS 4032
27	CHEMICAL- BUILDING MATERIAL	GGBS	Sulphuric anhydride	IS 4032
28	CHEMICAL- BUILDING MATERIAL	OPC Cement	Alumina (Al2O3)	IS 4032
29	CHEMICAL- BUILDING MATERIAL	OPC cement	Calcium Oxide	IS 4032
30	CHEMICAL- BUILDING MATERIAL	OPC cement	Chloride	IS 4032
31	CHEMICAL- BUILDING MATERIAL	OPC Cement	Insoluble residue	IS 4032
32	CHEMICAL- BUILDING MATERIAL	OPC cement	Iron oxide	IS 4032

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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
33	CHEMICAL- BUILDING MATERIAL	OPC Cement	Loss on Ignition	IS 4032
34	CHEMICAL- BUILDING MATERIAL	OPC cement	Magnesium Oxide	IS 4032
35	CHEMICAL- BUILDING MATERIAL	OPC cement	Potassium Oxide	IS 4032
36	CHEMICAL- BUILDING MATERIAL	OPC Cement	Silica (SiO2)	IS 4032
37	CHEMICAL- BUILDING MATERIAL	OPC Cement	Sodium Oxide	IS 4032
38	CHEMICAL- BUILDING MATERIAL	OPC cement	Sulphuric anhydride	IS 4032
39	CHEMICAL- BUILDING MATERIAL	PPC Cement	Chloride	IS 4032
40	CHEMICAL- BUILDING MATERIAL	PPC Cement	Insoluble residue	IS 4032
41	CHEMICAL- BUILDING MATERIAL	PPC cement	Loss on Ignition	IS 4032
42	CHEMICAL- BUILDING MATERIAL	PPC Cement	Magnesium Oxide	IS 4032
43	CHEMICAL- BUILDING MATERIAL	PPC cement	Sulphuric anhydride	IS 4032
44	CHEMICAL- BUILDING MATERIAL	PSC Cement	Alumina (Al2O3)	IS 4032
45	CHEMICAL- BUILDING MATERIAL	PSC Cement	Calcium Oxide	IS 4032
46	CHEMICAL- BUILDING MATERIAL	PSC cement	Chloride	IS 4032
47	CHEMICAL- BUILDING MATERIAL	PSC cement	Insoluble residue	IS 4032
48	CHEMICAL- BUILDING MATERIAL	PSC cement	Iron oxide	IS 4032

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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
49	CHEMICAL- BUILDING MATERIAL	PSC Cement	Loss on Ignition	IS 4032
50	CHEMICAL- BUILDING MATERIAL	PSC Cement	Magnesium Oxide	IS 4032
51	CHEMICAL- BUILDING MATERIAL	PSC Cement	Potassium Oxide	IS 4032
52	CHEMICAL- BUILDING MATERIAL	PSC Cement	Silica (SiO2)	IS 4032
53	CHEMICAL- BUILDING MATERIAL	PSC Cement	Sodium Oxide	IS 4032
54	CHEMICAL- BUILDING MATERIAL	PSC cement	Sulphuric anhydride	IS 4032
55	CHEMICAL- BUILDING MATERIAL	Silica fume	Loss on ignition	IS 1727
56	CHEMICAL- BUILDING MATERIAL	Silica fume	Moisture	IS 1727
57	CHEMICAL- BUILDING MATERIAL	Silica Fume	Silica (SiO2)	IS 1727
58	CHEMICAL- WATER	Water for construction purpose	Acidity Neutralisaion with 0.02N NaOH	IS 3025 part-22
59	CHEMICAL- WATER	Water for construction purpose	Alkalinity Neutralisaion with 0.02N H2SO4	IS 3025 part-23
60	CHEMICAL- WATER	Water for construction purpose	Chloride (Argentometric Method)	IS 3025 part-32
61	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids	IS 3025 part-18
62	CHEMICAL- WATER	Water for construction purpose	Organic solids	IS 3025 part-18
63	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 part-11
64	CHEMICAL- WATER	Water for construction purpose	Sulphates as SO3 (Gravimetric Method)	IS 3025 part-24 sec1
65	CHEMICAL- WATER	Water for construction purpose	Suspended solids	IS 3025 part-17
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggreate	Sieve Analysis (40mm - 4.75mm)	IS 2386 Part-1

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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
67	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Compacted bulk density	IS 2386 part-3
68	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 part-4
69	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 part-1
70	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 part-1
71	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 part-4
72	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Loose Bulk Density	IS 2386 (Part 3)
73	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Materials Finer than 75 Micron	IS 2386 (PART 1
74	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386 part-5
75	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness (Mgso4)	IS 2386 part-5
76	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Specific Gravity	IS 2386 part-3
77	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 part-3
78	MECHANICAL-BUILDINGS MATERIALS	Common burnt clay building bricks	Compressive strength	IS 3495 : Part 1

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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
79	MECHANICAL-BUILDINGS MATERIALS	Common burnt clay building bricks	Dimensions height	IS 1077
80	MECHANICAL-BUILDINGS MATERIALS	Common burnt clay building bricks	Dimensions length	IS 1077
81	MECHANICAL-BUILDINGS MATERIALS	Common burnt clay building bricks	Dimensions width	IS 1077
82	MECHANICAL-BUILDINGS MATERIALS	Common burnt clay building bricks	Water Absorption	IS 3495 : Part 2
83	MECHANICAL-BUILDINGS MATERIALS	Concrete cube	Accelerated curing by Boiling water method	IS 9013
84	MECHANICAL-BUILDINGS MATERIALS	Concrete Cube/ Cylinder	Rapid Chloride Penetration Test	ASTM C 1202
85	MECHANICAL-BUILDINGS MATERIALS	Concrete cylinder	Compressive Strength Test	IS 516 (Part 1/Sec 1)
86	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Compacted Bulk Density	IS 2386 part-3
87	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Loose Bulk Density	IS 2386 part-3
88	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 part-1
89	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (4.75mm to 150 micron	IS 2386 part-1
90	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness by Magnesium Sulphate	IS 2386 (Part 5)

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91	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness by Sodium Sulphate	IS 2386 (Part 5)
92	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 part-3
93	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 part-3
94	MECHANICAL-BUILDINGS MATERIALS	Fly ash Brick	Compressive strength	IS 3495 : Part 1
95	MECHANICAL-BUILDINGS MATERIALS	Fly ash brick	Dimensions Length	IS 12894
96	MECHANICAL-BUILDINGS MATERIALS	Fly ash Brick	Dimensions Width	IS 12894
97	MECHANICAL-BUILDINGS MATERIALS	Fly ash Brick	Water Absorption	IS 3495 : Part 2
98	MECHANICAL-BUILDINGS MATERIALS	Flyash Brick	Dimensions Thickness	IS 12894
99	MECHANICAL-BUILDINGS MATERIALS	GGBS	Fineness (By Blaine’s Air Permeability Method)	IS 4031 Part-2
100	MECHANICAL-BUILDINGS MATERIALS	GGBS	Slag Activity Index	IS 4031 Part-6
101	MECHANICAL-BUILDINGS MATERIALS	Hardened concrete core	Compressive Strength	IS 516 (Part 4)
102	MECHANICAL-BUILDINGS MATERIALS	Hardened concrete cube	Compressive Strength Test	IS 516 (Part 1/Sec 1)

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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
103	MECHANICAL-BUILDINGS MATERIALS	Hardened concrete cube/ cylinder	Water Permeability	IS 516 (Part 2/Sec 1)
104	MECHANICAL-BUILDINGS MATERIALS	Hardened concrete cylinder	Split Tensile Strength	IS 516 (Part 1/Sec 1)
105	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Compressive Strength	IS 4031 Part -6
106	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Density of Cement	4031 part-11
107	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Final Setting Time	IS 4031 Part -5
108	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Fineness (By Blaine’s Air Permeability Method)	IS 4031 Part -2
109	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Initial Setting Time	IS 4031 part-5
110	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Soundness by Le-Chatelier’s Apparatus	IS 4031 Part-3
111	MECHANICAL-BUILDINGS MATERIALS	OPC Cement	Standard Consistency	IS 4031 Part -4
112	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive strength	IS 15658
113	MECHANICAL-BUILDINGS MATERIALS	Paver block	Split Tensile Strength	IS 15658
114	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Flexural Strength	IS 15658

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115	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
116	MECHANICAL-BUILDINGS MATERIALS	Pozzolana	Compressive Strength @ 28 Days	IS 1727
117	MECHANICAL-BUILDINGS MATERIALS	Pozzolana	Fineness (By Blaine’s Air Permeability Method)	IS 1727
118	MECHANICAL-BUILDINGS MATERIALS	Pozzolana	Particles Retained on 45 micron sieve (Wet Sieving)	IS 1727
119	MECHANICAL-BUILDINGS MATERIALS	Pozzolana	Particles Retained on 45 micron sieve (Wet Sieving)	IS 1727
120	MECHANICAL-BUILDINGS MATERIALS	Pozzolana	Specific gravity	IS 1727
121	MECHANICAL-BUILDINGS MATERIALS	PPC Cement	Compressive Strength	IS 4031 Part-6
122	MECHANICAL-BUILDINGS MATERIALS	PPC cement	Density of Cement	IS 4031 Part-11
123	MECHANICAL-BUILDINGS MATERIALS	PPC Cement	Final Setting Time	IS 4031 Part-5
124	MECHANICAL-BUILDINGS MATERIALS	PPC Cement	Fineness (By Blaine’s Air Permeability Method)	IS 4031 Part-2
125	MECHANICAL-BUILDINGS MATERIALS	PPC Cement	Initial Setting Time	IS 4031 Part-5
126	MECHANICAL-BUILDINGS MATERIALS	PPC Cement	Soundness by Le-Chatelier’s Apparatus	IS 4031 Part-3

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127	MECHANICAL-BUILDINGS MATERIALS	PPC Cement	Standard Consistency	IS 4031 Part-4
128	MECHANICAL-BUILDINGS MATERIALS	PSC Cement	Compressive Strength	IS 4031 Part-6
129	MECHANICAL-BUILDINGS MATERIALS	PSC cement	Density of Cement	IS 4031 Part-11
130	MECHANICAL-BUILDINGS MATERIALS	PSC cement	Final Setting Time	IS 4031 Part-5
131	MECHANICAL-BUILDINGS MATERIALS	PSC cement	Fineness (By Blaine’s Air Permeability Method)	IS 4031 Part-2
132	MECHANICAL-BUILDINGS MATERIALS	PSC Cement	Initial Setting Time	IS 4031 Part-5
133	MECHANICAL-BUILDINGS MATERIALS	PSC Cement	Soundness by Le-Chatelier’s Apparatus	IS 4031 Part-3
134	MECHANICAL-BUILDINGS MATERIALS	PSC Cement	Standard Consistency	IS 4031 Part-4
135	MECHANICAL-BUILDINGS MATERIALS	Silica Fume	Compressive strength	IS 1727
136	MECHANICAL-BUILDINGS MATERIALS	Solid Block	Compressive strength	IS 2185 : Part 1
137	MECHANICAL-BUILDINGS MATERIALS	Solid Block	Density	IS 2185 : Part 1
138	MECHANICAL-BUILDINGS MATERIALS	Solid Block	Dimensions Length	IS 2185 : Part 1

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139	MECHANICAL-BUILDINGS MATERIALS	Solid Block	Dimensions Thickness	IS 2185 : Part 1
140	MECHANICAL-BUILDINGS MATERIALS	Solid Block	Dimensions Width	IS 2185 : Part 1
141	MECHANICAL-BUILDINGS MATERIALS	Solid Block	Water Absorption	IS 2185 : Part 1
142	MECHANICAL- SOIL AND ROCKS	Rock	Water content	IS 13030
143	MECHANICAL- SOIL AND ROCKS	Soil	Free swell Index	IS 2720 (Part 40)
144	MECHANICAL- SOIL AND ROCKS	Soil	Grained Size Analysis {4.75 mm to 75 micron)	IS 2720 (Part 4)
145	MECHANICAL- SOIL AND ROCKS	Soil	Heavy Compaction Maximum Dry Density	IS 2720 (Part 8)
146	MECHANICAL- SOIL AND ROCKS	Soil	Heavy Compaction Optimum Moisture Content	IS 2720 (Part 8)
147	MECHANICAL- SOIL AND ROCKS	Soil	Light Compaction Maximum Dry Density	IS 2720 (Part 7)
148	MECHANICAL- SOIL AND ROCKS	Soil	Light Compaction Optimum Moisture Content	IS 2720 (Part 7)
149	MECHANICAL- SOIL AND ROCKS	Soil	Liquid Limit	IS 2720 (Part 5)
150	MECHANICAL- SOIL AND ROCKS	Soil	Plastic Limit	IS 2720 (Part 5)
151	MECHANICAL- SOIL AND ROCKS	Soil	Specific Gravity	IS 2720 (Part 3/Sec 1)

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Site Testing				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened concrete	Cover Depth	BS 1881 Part 240
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened concrete	Half Cell Potential	IS 516 (Part 5/Sec 2)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened concrete	Rebound Hammer test	IS 516 (Part 5/Sec 4)
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Hardened concrete	Ultrasonic pulse velocity	IS 516 (Part 5/Sec 1)