National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INDEPENDENT TESTING LABORATORIES, NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS, NCB BHAVAN, OLD BOMBAY ROAD, GACHIBOWLI, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 11/03/2023 to 10/03/2025 **Last Amended on** 14/03/2023

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	AGGREGATE	ALKALI AGGREGATE REACTIVITY	IS 2386 PT 7
2	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Aluminum oxide	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Calcium oxide	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Chloride	IS 4032
5	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Free Lime	IS 4032
6	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Insoluble residue	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	IRON OXIDE	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Loss On Ignition	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Magnesium oxide	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Manganese (III) Oxide	IS 12423
11	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Phosphorus pentoxide	IS 12423
12	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Potassium oxide	NCB MONOGRAPH MS-13-
13	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Ratio of percentage of alumina to that of iron oxide	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Ratio of the percentage of lime to percentages of silica, alumina and iron oxide	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Silicon dioxide	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Sodium oxide	NCB MONOGRAPH MS-13-
17	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	SULPHIDE SULPHUR	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Sulphur trioxide	IS 4032

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19	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Tetracalcium Aluminoferrite	IS 4032
20	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Titanium dioxide	IS 12423
21	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Tricalcium Aluminate	IS 4032
22	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Tricalcium Silicate	IS 4032
23	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cements	Tricalcium Silicate + Dicalcium Silicate	IS 4032
24	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	ALUMINUM OXIDE	IS 1727
25	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	Available alkalis as equivalent sodium oxide (Na2O)	IS 3812 (Pt 1 & 2)
26	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	CALCIUM OXIDE	IS 1727
27	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	CHLORIDE	IS 4032
28	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	IRON OXIDE	IS 1727
29	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	MAGNESIUM OXIDE	IS 1727
30	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	Moisture	IS 3812 (Pt 1)
31	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	Reactive Silica	IS 3812 (Pt 1)
32	CHEMICAL- BUILDING MATERIAL	Fly ash / Aluminium Silicates	SULPHUR TRIOXIDE	IS 1727
33	CHEMICAL- BUILDING MATERIAL	Flysh/ Aluminium Silicates	LOSS ON IGNITION	IS 1727
34	CHEMICAL- BUILDING MATERIAL	Flysh/ Aluminium Silicates	SILICON DIOXIDE	IS 1727
35	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Aluminum oxide	IS 4032
36	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Calcium oxide	IS 4032
37	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	CHLORIDE	IS 4032

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38	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	GLASS CONTENT	IS 12089 & IS 16714
39	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	INSOLUBLE RESIDUE	IS 4032
40	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	IRON OXIDE	IS 4032
41	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	LOSS ON IGNITION	IS 4032
42	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Magnesium oxide	IS 4032
43	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Manganese (II) Oxide	IS 4032
44	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Moisture	IS 16714
45	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Percentages of Major Oxides (Cao + CaS + 1/2 MgO + Al2O3) / (SiO2 + MnO)	IS 4032
46	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Percentages of Major Oxides (Cao + MgO + 1/3 Al2O3) / (SiO2 + 2/3 Al2o3)	IS 4032
47	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Percentages of Major Oxides (CaO + MgO + Al2O3) / SiO2	IS 4032
48	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	Retained on 50 mm Seive	IS 12089
49	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	SILICON DIOXIDE	IS 4032
50	CHEMICAL- BUILDING MATERIAL	GBF Slag & GGBF Slag	SULPHIDE SULPHUR	IS 4032
51	CHEMICAL- BUILDING MATERIAL	GYPSUM	ALUMINUM OXIDE	CRT/NCBH/VM-01 issue no.01
52	CHEMICAL- BUILDING MATERIAL	GYPSUM	CALCIUM OXIDE	CRT/NCBH/VM-01 issue no.01
53	CHEMICAL- BUILDING MATERIAL	Gypsum	Calcium Sulfate Dihydrate (Purity)	IS 1288
54	CHEMICAL- BUILDING MATERIAL	GYPSUM	Chloride	IS 1288- 1982
55	CHEMICAL- BUILDING MATERIAL	GYPSUM	COMBINED WATER	IS 1288

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56	CHEMICAL- BUILDING MATERIAL	GYPSUM	Free water	IS 1288
57	CHEMICAL- BUILDING MATERIAL	GYPSUM	IRON OXIDE	CRT/NCBH/VM-01 issue no.01
58	CHEMICAL- BUILDING MATERIAL	GYPSUM	MAGNESIUM OXIDE	CRT/NCBH/VM-01 issue no.01
59	CHEMICAL- BUILDING MATERIAL	GYPSUM	SILICA + ACID INSOLUBLE	IS 1288
60	CHEMICAL- BUILDING MATERIAL	GYPSUM	SILICON DIOXIDE	CRT/NCBH/VM-01 issue no.01
61	CHEMICAL- BUILDING MATERIAL	GYPSUM	SULPHUR TRIOXIDE	IS 1288
62	CHEMICAL- ORES & MINERALS	BAUXITE	ALUMINUM OXIDE	IS 2000 (Pt 3)
63	CHEMICAL- ORES & MINERALS	BAUXITE	IRON OXIDE	IS 2000 (Pt 4)
64	CHEMICAL- ORES & MINERALS	BAUXITE	LOSS ON IGNITION	IS 2000 (Pt 1)
65	CHEMICAL- ORES & MINERALS	BAUXITE	Manganese as Mn2O3	CRT/NCBH/NM-02, Issue no.1.1
66	CHEMICAL- ORES & MINERALS	BAUXITE	PHOSPHORUS PENTOXIDE	CRT/NCBH/NM-02, Issue no.1.1
67	CHEMICAL- ORES & MINERALS	BAUXITE	SILICON DIOXIDE	IS 2000 (Pt 2)
68	CHEMICAL- ORES & MINERALS	BAUXITE	TITANIUM DIOXIDE	CRT/NCBH/NM-02, Issue no.1.1
69	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	ALUMINUM OXIDE	CRT/NCBH/VM-01 issue no.01
70	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	CALCIUM OXIDE	CRT/NCBH/VM-01 issue no.01
71	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	MAGNESIUM OXIDE	CRT/NCBH/VM-01 issue no.01
72	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	Manganese (III) Oxide	CRT/NCBH/VM-01 issue no.01
73	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	PHOSPHORUS PENTOXIDE	CRT/NCBH/VM-01 issue no.01
74	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	SILICON DIOXIDE	IS 1493 pt-1

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75	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	TITANIUM DIOXIDE	CRT/NCBH/VM-01 issue no.01
76	CHEMICAL- ORES & MINERALS	IRON ORE/ LATERITE	TOTAL IRON	CRT/NCBH/VM-01 issue no.01
77	CHEMICAL- ORES & MINERALS	LIMESTONE	ALUMINUM OXIDE	IS 1760 PT 3
78	CHEMICAL- ORES & MINERALS	Limestone	Calcium Carbonate	IS 1760 (Pt 3)
79	CHEMICAL- ORES & MINERALS	LIMESTONE	CALCIUM OXIDE	IS 1760 PT 3
80	CHEMICAL- ORES & MINERALS	LIMESTONE	CHLORIDE	IS 1760 PT 5
81	CHEMICAL- ORES & MINERALS	LIMESTONE	FREE SILICA	IS 1760 PT 6
82	CHEMICAL- ORES & MINERALS	LIMESTONE	IRON OXIDE	IS 1760 PT 3
83	CHEMICAL- ORES & MINERALS	LIMESTONE	LOSS ON IGNITION	IS 1760 PT-1
84	CHEMICAL- ORES & MINERALS	LIMESTONE	MAGNESIUM OXIDE	IS 1760 PT 3
85	CHEMICAL- ORES & MINERALS	LIMESTONE	manganese as Mn2O3	CRT/NCBH/NM-01, Issue no.1
86	CHEMICAL- ORES & MINERALS	LIMESTONE	PHOSPHORUS PENTOXIDE	CRT/NCBH/NM-01, Issue no.1
87	CHEMICAL- ORES & MINERALS	LIMESTONE	SILICON DIOXIDE	IS 1760 PT-2
88	CHEMICAL- ORES & MINERALS	LIMESTONE	TITANIUM DIOXIDE	CRT/NCBH/NM-01, Issue no.1
89	CHEMICAL- SOLID FUELS	Coal	ASH CONTENT	IS 1350 PT-1
90	CHEMICAL- SOLID FUELS	Coal	FIXED CARBON	IS 1350 PT 1
91	CHEMICAL- SOLID FUELS	Coal	GROSS CALORIFIC VALUE	IS 1350 PT -2
92	CHEMICAL- SOLID FUELS	Coal	HARD GROVE GRINDABILITY INDEX	IS 4433
93	CHEMICAL- SOLID FUELS	Coal	Moisture in air-dried laboratory analysis samples	IS 1350 PT-1
94	CHEMICAL- SOLID FUELS	Coal	SULPHUR	IS 1350 PT -3
95	CHEMICAL- SOLID FUELS	Coal	VOLATILE MATTER	IS 1350 PT -1

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96	CHEMICAL- WATER	Water for construction purpose	ACIDITY	IS 3025 PT 22
97	CHEMICAL- WATER	Water for construction purpose	ALKALINITY	IS 3025 PT 23
98	CHEMICAL- WATER	Water for construction purpose	CHLORIDES	IS 3025 PT 32
99	CHEMICAL- WATER	Water for construction purpose	INORGANIC SOLIDS	IS 3025 PT 18
100	CHEMICAL- WATER	Water for construction purpose	ORGANIC MATTER	IS 3025 PT 15
101	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 PT 11
102	CHEMICAL- WATER	Water for construction purpose	SULPHATES	IS 3025 PT 24
103	CHEMICAL- WATER	Water for construction purpose	SUSPENDED MATTER	IS 3025 PT 17
104	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 Pt 3
105	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions	IS 12894, IS 1077
106	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 Pt 1
107	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 Pt 2
108	MECHANICAL- BUILDINGS MATERIALS	Clinker	Granulometric Composition	IS 16353
109	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	AUTOCLAVE EXPANSION	IS 4031 PT3
110	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	COMPRESSIVE STRENGTH	IS 4031 PT 6
111	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	CONSISTENCY	IS 4031 PT 4
112	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	DENSITY	IS 4031 PT 11
113	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	DRYING SHRINKAGE	IS 4031 PT 10
114	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	FINAL SETTING TIME	IS 4031 PT5
115	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	FINENESS-BLAINE'S (AIR PERMEABILITY METHOD)	IS 4031 PT 2
116	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	HEAT OF HYDRATION	IS 4031 PT9
117	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	INITIAL SETTING TIME	IS 4031 PT 5

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118	MECHANICAL- BUILDINGS MATERIALS	Clinker & Hydraulic Cements	LE-CHATELIER EXPANSION	IS 4031 PT3
119	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion value	IS 2386 pt 4
120	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 pt 3
121	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 pt 4
122	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	DELETERIOUS MATERIALS	IS 2386 PT 2
123	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	ELONGATION INDEX	IS 2386 PT 1
124	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	FLAKINESS INDEX	IS 2386 PT 1
125	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	GRADING Sieve Size: 80 mm to 2.36 mm	IS 2386 PT 1
126	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	IMPACT VALUE	IS 2386 pt 4
127	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	SOUNDNESS	IS 2386 Pt 5
128	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	SPECIFIC GRAVITY	IS 2386 PT 3
129	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	WATER ABSORPTION	IS 2386 pt 3
130	MECHANICAL- BUILDINGS MATERIALS	Concrete Cubes	Compressive strength	IS 516
131	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	BULK DENSITY	IS 2386 pt 3
132	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	DELETERIOUS MATERIAL	IS 2386 Pt 2
133	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Finer than 75 microns material (Crushed sand)	IS 2386 (Pt 1)
134	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	GRADING Sieve Size:10 mm to 150 microns	IS 2386 Pt 1
135	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	ORGANIC IMPURITIES	IS 2386 Pt 2
136	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	SOUNDNESS	IS 2386 pt 5

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137	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	SPECIFIC GRAVITY	IS 2386 pt 3
138	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	WATER ABSORPTION	IS 2386 Pt 3
139	MECHANICAL- BUILDINGS MATERIALS	Fly ash / Aluminium Silicates	Retained on 45 micron sieve	IS 1727
140	MECHANICAL- BUILDINGS MATERIALS	GGBF Slag	Fineness - Blaine's (Air Permeability Method)	IS 4031 (Pt 2)
141	MECHANICAL- BUILDINGS MATERIALS	GGBF Slag	Slag Activity Index @ 28 days	IS 4031 (Pt 6)
142	MECHANICAL- BUILDINGS MATERIALS	GGBF Slag	Slag Activity Index @ 7 days	IS 4031 (Pt 6)
143	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fly ash	AUTOCLAVE EXPANSION	IS 1727
144	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fly ash	COMPARATIVE COMPRESSIVE STRENGTH	IS 1727
145	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fly ash	DRYING SHRINKAGE	IS 1727
146	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fly ash	FINENESS-BLAINE'S (AIR PERMEABILITY METHOD)	IS 1727
147	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fly ash	LIME REACTIVITY	IS 1727
148	MECHANICAL- BUILDINGS MATERIALS	SRPC	SULPHATE EXPANSION	IS 12330
149	MECHANICAL- BUILDINGS MATERIALS	WHITE PORTLAND CEMENT	DEGREE OF WHITENESS	IS 8042