National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INTEGRATED RESEARCH & ANALYSIS CENTER, 2ND FLOOR, IRAC HOUSE,164 NAHARPUR, NEW DELHI, 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	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Bulk Density	IS 6441 (Part-1)
2	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part-5)
3	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension (Height)	IS 2185 (Part-3)
4	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension (Length)	IS 2185 (Part-3)
5	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension(Width)	IS 2185 (Part-3)
6	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Drying Shrinkage	IS 6441 (Part-2)
7	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Thermal Conductivity	IS 3346
8	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse & graded)	Aggregate crushing value	IS 2386 (Part-4)
9	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse & graded)	Aggregate Imapct Value	IS 2386 (Part-4)
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS:1202
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	water Absorption	IS: 2386(Part-3)
16	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron IS Sieve % by mass	IS 8887
17	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by saybolt furol viscometer	IS 8887
18	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part-1)

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19	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Height)	IS 1077
20	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Length)	IS 1077
21	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Width)	IS 1077
22	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part-2)
23	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part-3)
24	MECHANICAL- BUILDINGS MATERIALS	Cement concrete chequered flooring tile	Thickness	IS: 1237, IS 13801
25	MECHANICAL- BUILDINGS MATERIALS	cement concrete chequered flooring tile	Water Absorption	IS 1237, IS 13801
26	MECHANICAL- BUILDINGS MATERIALS	Ceramic/Vitrified Tiles	Dimension (Length)	IS 13630 (Pt-1)
27	MECHANICAL- BUILDINGS MATERIALS	Ceramic/Vitrified Tiles	Dimension(Width)	IS 13630 (Part-1)
28	MECHANICAL- BUILDINGS MATERIALS	Ceramic/vitrified Tiles	Thickness	IS 13630 (Part-1)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Aggregate 10% fine value	IS 2386 (Part-4)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Bulk Density	IS 2386 (Part-3)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Clay lumps	IS 2386 (Part-2)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	combined Flakiness and Elongation indices	IS 2386 (Part-1)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Material finer than 75 micron IS sieve	IS 2386 (Part-1)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Sieve Analysis (50 mm, 40 mm, 25 mm, 20 mm, 16 mm, 10 mm, 6.3 mm, 4.75 mm, 3.35 mm)	IS 2386 (Part-1)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Specific gravity	IS: 2386(Part-3)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse & graded	Water Absorption	IS:2386(Part-3)

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37	MECHANICAL- BUILDINGS MATERIALS	Fine, stone dust, sand, crusher dust	Bulk Density	IS 2386 (Part-3)
38	MECHANICAL- BUILDINGS MATERIALS	Fine, stone dust, sand, crusher dust	Bulking	IS 2386 (Part-3)
39	MECHANICAL- BUILDINGS MATERIALS	Fine, stone dust, sand, crusher dust	Fineness Modulus	IS 2386 (Part-1)
40	MECHANICAL- BUILDINGS MATERIALS	Fine, stone dust, sand, crusher dust	Material finer than 75 micron IS sieve	IS 2386 (Part-3)
41	MECHANICAL- BUILDINGS MATERIALS	Fine, stone dust, sand, crusher dust	Silt content	CPWD specification, 2019
42	MECHANICAL- BUILDINGS MATERIALS	Fine, stone dust, sand, crusher dust	Water Absorption	IS 2386 (Part-3)
43	MECHANICAL- BUILDINGS MATERIALS	fine,stone dust, sand, crusher dust	Sieve Analysis (10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 600 micron, 300 micron, 150 micron)	IS 2386 (Part-1)
44	MECHANICAL- BUILDINGS MATERIALS	Fine,stone dust,sand,crusher dust	Specific gravity	IS 2386 (Part-3)
45	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Comparative Compressive Strength at 28 days	IS 1727
46	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness (Specific Surface Blaine's)	IS 1727
47	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Particle retained on 45 micron sieve (wet sieving)	IS 1727
48	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Soundness (by Autoclave)	IS 1727
49	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength of concrete core	IS: 516(Part-4)
50	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength of Cube	IS 516
51	MECHANICAL- BUILDINGS MATERIALS	Hardened concrete	Flexural Test of concrete Beam	IS 516
52	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Slump	IS 1199
53	MECHANICAL- BUILDINGS MATERIALS	Hardened concrete	Split Tensile strength of cylinder	IS 5816
54	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel Bar & wire	Mass	IS 1786

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55	MECHANICAL- BUILDINGS MATERIALS	High Strength deformed steel Bar & wire	Rebend Test (Mandrel dia in mm, 16,20,24,30,32,36,40,44,50,56,60,64,70,75,84,100,108,120,125,140,150,160,175,192,224,256)	IS 1786
56	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel Bar & wire	Tensile Strength	IS 1608
57	MECHANICAL- BUILDINGS MATERIALS	High Strength deformed steel Bar & wire	Yield Strength	IS 1608
58	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Compressive strength	IS 4031 (Part-6)
59	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Consistency	IS 4031 (Part-4)
60	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Density/Specific gravity	IS 4031(Part-11)
61	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Final Setting Time	IS 4031 (Part-5)
62	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Fineness by Blaine air permeability	IS 4031 (Part-2)
63	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Initial Setting Time	IS 4031 (Part-5)
64	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Soundness by Autoclave method	IS 4031 (Part-3)
65	MECHANICAL- BUILDINGS MATERIALS	OPC & PPC	Soundness by Le-chatelier method	IS 4031 (Part-3)
66	MECHANICAL- BUILDINGS MATERIALS	others	Clay lumps	IS 2386 (Part-2)
67	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Arris/Chamfer (Width)	IS 15658
68	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Arris/Chamfer(Depth)	IS 15658
69	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Aspect Ratio, (L/T)	IS 15658
70	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS15658
71	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS 15658

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72	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Width)	IS 15658
73	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Flexural strength/ Breaking load	IS 15658
74	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Freeze-Thaw Durability	IS 15658
75	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Length,L	IS 15658
76	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Plan area, Asp	IS 15658
77	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Resistance to wear	IS 15658
78	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Squareness	IS 15658
79	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Tensile splitting strength	IS 15658
80	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Thickness	IS:15658
81	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Thickness of Wearing layer	IS 15658
82	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Visual inspection	IS 15658
83	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
84	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Wearing face area, Asw	IS 15658
85	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Compressive Strength at 7 days as % of Control sample	IS 1727
86	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Material Retained on 45 micron IS sieve	IS 1727
87	MECHANICAL- BUILDINGS MATERIALS	Steel	Bend Test	IS 1599
88	MECHANICAL- BUILDINGS MATERIALS	steel	Elongation	IS 1608
89	MECHANICAL- BUILDINGS MATERIALS	steel	Elongation	IS 1608

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90	MECHANICAL- BUILDINGS MATERIALS	steel	Hot Rolled medium & High Tensile structural steel, steel tubes for structural purpose, Hollow steel section for structural use-Bend Test	IS: 1599
91	MECHANICAL- BUILDINGS MATERIALS	steel	Hot Rolled medium & High Tensile structural steel, steel tubes for structural purpose, Hollow steel section for structural use-Dimension	IS 2062, IS1161, IS 4923
92	MECHANICAL- BUILDINGS MATERIALS	steel	Hot Rolled medium & High Tensile structural steel, steel tubes for structural purpose, Hollow steel section for structural use-Mass	IS 808, IS 1730, IS 1732, IS 4923
93	MECHANICAL- BUILDINGS MATERIALS	Steel	Hot Rolled medium & High Tensile structural steel, steel tubes for structural purpose, Hollow steel section for structural use--Yield stress	IS: 1608
94	MECHANICAL- BUILDINGS MATERIALS	steel	Tensile Strength	IS 1608
95	MECHANICAL- BUILDINGS MATERIALS	Sub -Base Non Bituminous(GSB, WMM & WBM)	Liquid Limit	IS 2720 (Part-5)
96	MECHANICAL- BUILDINGS MATERIALS	Sub base Non-Bituminous (GSB, WMM & WBM)	Sieve Analysis (Gradation)	IS 2386 (Part-1)
97	MECHANICAL- BUILDINGS MATERIALS	Sub-base Non-Bituminouns (GSB, WMM & WBM)	Combined Flakiness and Elongation Indices	IS 2386 (Part-1)
98	MECHANICAL- BUILDINGS MATERIALS	Sub-base Non-Bituminous (GSB,WMM,& WBM)	Water Absorption	IS 2386 (Part-3)
99	MECHANICAL- BUILDINGS MATERIALS	Tiles	Scratch Hardness	IS 13630 (Part-13)
100	MECHANICAL- BUILDINGS MATERIALS	Tiles	Tiles-Cement concrete/chequered flooring tile Dimension (Length)	IS 1237, IS 13801
101	MECHANICAL- BUILDINGS MATERIALS	Timber wood	Moisture content	IS 11215
102	MECHANICAL- BUILDINGS MATERIALS	Timer Wood	Density	IS 1708 (Part-2)
103	MECHANICAL- SOIL AND ROCK	Bentonite	Free swell Index	IS 2720 (Part-40)

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104	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit	IS 2720 (Part-5)
105	MECHANICAL- SOIL AND ROCK	Bentonite	Sand Content	IS 6186
106	MECHANICAL- SOIL AND ROCK	Direct shear-Cohesion	Direct Shear-Cohesion	IS 2720 (Part-13)
107	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Angle of internal friction	IS: 2720 (Pt-13)
108	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Atterberg's Limit -Liquid limit	IS 2720 (Part-5)
109	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	CBR	IS 2720 (Part-16)
110	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Free swell Index	IS 2720 (Part-40)
111	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Heavy Compaction (OMC)	IS 2720 (Part-8)
112	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Light compaction(MDD)	IS 2720 (Part-7)
113	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Light Compaction(OMC)	IS 2720 (Part-7)
114	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Moisture content	IS 2720 (Part-2)
115	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Plastic Limit	IS 2720 (Part-5)
116	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Sieve Analysis	IS 2720 (Part-4)
117	MECHANICAL- SOIL AND ROCK	Soil & Rock Soil Testing, Earth Work, subgrade Blanketing Material	Specific Gravity	IS 2720 (Part-3/sec-1)
118	MECHANICAL- SOIL AND ROCK	soil testing (Field)	Field Density Test (by Core cutter method)	IS 2720 (Part-29)
119	MECHANICAL- SOIL AND ROCK	Soil Testing (Field)	Field Dry Density (by sand replacement method	IS 2720 (Part-28)
120	MECHANICAL- SOIL AND ROCK	Stone-Marble, Granite, Kota stone	Apparent Porosity	IS 1124
121	MECHANICAL- SOIL AND ROCK	Stone-Marble, Granite, Kota stone	Apparent Specific gravity	IS 1124
122	MECHANICAL- SOIL AND ROCK	Stone-Marble, Granite, Kota stone	Compressive strength	IS 1121 (Part-1)

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123	MECHANICAL- SOIL AND ROCK	Stone-Marble, Granite, Kota stone	Scratch Hardness	IS 13630 (Part-13)
124	MECHANICAL- SOIL AND ROCK	Stone-Marble, Granite, Kota stone	True Specific gravity	IS 1122
125	MECHANICAL- SOIL AND ROCK	Stone-Marble, Granite, Kota stone	Water Absorption	IS 1124
126	MECHANICAL- SOIL AND ROCK	Sub base Non-Bituminous(GSB,WMM & WBM)Soil	Plastic Limit	IS 2720 (Part-5)
127	MECHANICAL- SOIL AND ROCK	Sub-base Non-Bituminouns (GSB, WMM & WBM)	California Bearing Ratio	IS: 2720 (Part-16)
128	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber wood	Density	IS 1708 (Part-2)
129	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber wood	Moisture content	IS 11215