National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHANDIGARH TEST HOUSE, FACTORY AREA, BASSI PATHANA, FATEHGARH SAHIB, PUNJAB, 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	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	Cement	Alumina	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement	Calcium oxide	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement	Combined ferric oxide & alumina	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement	Ferric oxide	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble residue	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement	Loss on ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement	Magnesia	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric anhydride	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Fly ash	Available alkali	IS 3812(P-1)
16	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on ignition	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesia	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly ash	Moisture content	IS 3812(P-1)

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19	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphuric anhydride	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Fly ash	Total chlorides	IS 4032
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	IS 228 (Part-1)
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	IS 228 (Part-2)
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	IS 228 (Part-3)
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	IS 228 (Part-8)
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	IS 228 (Part-9)
27	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part-32)
28	CHEMICAL- WATER	Water for construction purpose	Inorganic Matter	IS 3025 (Part-18)
29	CHEMICAL- WATER	Water for construction purpose	Neutralization using mixed indicator	IS 3025 (Part-23)
30	CHEMICAL- WATER	Water for construction purpose	Neutralization using phenolphthalein indicator	IS 3025 (Part-22)
31	CHEMICAL- WATER	Water for construction purpose	Organic Matter	IS 3025 (Part-18)
32	CHEMICAL- WATER	Water for construction purpose	pH Value	IS 3025 (Part-11) Second revision
33	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (Part-24) Sec-1
34	CHEMICAL- WATER	Water for construction purpose	Suspended Solids	IS 3025 (Part-17)
35	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Bulk Density	IS 6441 (P-2)
36	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compressive strength	IS 6441 (P-5)
37	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Height	IS 2185 (P-3)
38	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Length	IS 2185 (P-3)
39	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Width	IS 2185 (P-3)

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40	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	ASTM D-4-86
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Fire/Flash Point	IS 1448(P-69)
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration(1/10mm)	IS 1203
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
44	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Brick	Compressive Strength	IS 3495(P-1)
45	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Brick	Dimensions(Height)	IS 1077
46	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Brick	Dimensions(Length)	IS 1077
47	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Brick	Dimensions(Width)	IS 1077
48	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Brick	Efflorescence	IS 3495(P-3)
49	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Brick	Water Absorption	IS 3495(P-2)
50	MECHANICAL- BUILDINGS MATERIALS	Ceramic/Vitrified Tiles	Hardness	IS 13630(P-13)
51	MECHANICAL- BUILDINGS MATERIALS	Ceramic/Vitrified Tiles	Water Absorption	IS 13630 (P-2)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386(P-4)
53	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386(P-3)
54	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386(P-4)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(P-1)
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386(P-1)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386(P-4)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386(P-1)

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59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386(P-3)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386(P-3)
61	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
62	MECHANICAL- BUILDINGS MATERIALS	CRC/HRC sheets	Mass	IS 513
63	MECHANICAL- BUILDINGS MATERIALS	Ferrous products/welded products	Rockwell hardness	IS 1586(P-2)
64	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386(P-3)
65	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386(P-2)
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer Than 75 micron	IS 2386(P-1)
67	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386(P-1)
68	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386(P-3)
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386(P-3)
70	MECHANICAL- BUILDINGS MATERIALS	Floor Tiles	Water Absorption	IS 1237
71	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by 45 micron	IS 1727
72	MECHANICAL- BUILDINGS MATERIALS	Granite	Water Absorption	IS 3316
73	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	California Bearing Ratio(CBR)	IS 2720 (P-16)
74	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Compaction	IS 2720 (P-28 & P-29)
75	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Impact value	IS 2386 (P-4)
76	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Liquid limit	IS 2720 (P-5)
77	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	MDD(Heavy Compaction)	IS 2720 (P-8)

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78	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Particle size analysis	IS 2720 (P-4)
79	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Plastic limit	IS 2720 (P-5)
80	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Specific gravity	IS 2720 (P-3)
81	MECHANICAL- BUILDINGS MATERIALS	Granular Subbase	Water content	IS 2720 (P-2)
82	MECHANICAL- BUILDINGS MATERIALS	Kota Stone	Water Absorption	IS 1130
83	MECHANICAL- BUILDINGS MATERIALS	Marble	Hardness	Moh's scale
84	MECHANICAL- BUILDINGS MATERIALS	Marble	Water Absorption	IS 1124
85	MECHANICAL- BUILDINGS MATERIALS	MS square & rectangular pipes/GI pipes/MS & GI strips	Bend test	IS 1599
86	MECHANICAL- BUILDINGS MATERIALS	MS square & rectangular pipes/GI pipes/MS & GI strips	Dimension length	IS 2062
87	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC Cement	Compressive strength	IS 4031(P-6)
88	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC Cement	Consistency	IS 4031(P-4)
89	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC Cement	Setting time	IS 4031(P-5)
90	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC Cement	Soundness by Leachateller Expansion	IS 4031(P-3)
91	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Area	IS 15658
92	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Arries(Depth Wise)	IS 15658
93	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Arries(Width Wise)	IS 15658
94	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Aspect Ratio	IS 15658
95	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
96	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions(Length)	IS 15658

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97	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions(Width Lower)	IS 15658
98	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions(Width)	IS 15658
99	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Squarness	IS 15658
100	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Thickness of Wearing Layer	IS 15658
101	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
102	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel TMT	Bend Test (Mandrel dia. 16mm, 20mm, 24mm, 30mm, 32mm, 36mm, 40mm, 48mm, 50mm, 60mm, 75mm, 80mm, 100mm)	IS 1599
103	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel TMT	Dimension Length	IS 1786
104	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel TMT	Mass	IS 1786
105	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel TMT	Re bend Test(Mandrel dia. 32mm, 40mm, 48mm, 50mm, 56mm, 60mm, 70mm, 72mm, 84mm, 96mm, 112mm, 120mm, 128mm, 140mm, 150mm, 160mm, 175mm, 200mm)	IS 1608
106	MECHANICAL- BUILDINGS MATERIALS	Structural steel(Angle/Beams/Billets/Channels/Plates/MS Round)	Bend test	IS 1599
107	MECHANICAL- BUILDINGS MATERIALS	Structural steel(Angle/Beams/Billets/Channels/Plates/MS Round)	Dimension length	IS 2062
108	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadem	Compaction	IS 2720 (P-28 & P-29)
109	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadem	Crushing value	IS 2386 (P-4)
110	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadem	Elongation & Flakiness index	IS 2386(P-1)
111	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadem	Impact value	IS 2386 (P-4)
112	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadem	Particle size analysis	IS 2720 (P-4)

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113	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720(P-16)
114	MECHANICAL- SOIL AND ROCK	Soil	Degree of Compaction	IS 2720(P-28 & P-29)
115	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test(Angle of Internal Friction)	IS 2720(P-13)
116	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test(Cohesion)	IS 2720(P-13)
117	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720(P-40)
118	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis	IS 2720(P-4)
119	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction(MDD)	IS 2720(P-8)
120	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction(OMC)	IS 2720(P-8)
121	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(MDD)	IS 2720(P-7)
122	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(OMC)	IS 2720(P-7)
123	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720(P-5)
124	MECHANICAL- SOIL AND ROCK	Soil	Plasticity Index	IS 2720(P-5)
125	MECHANICAL- SOIL AND ROCK	Soil	Unconfined	IS 2720(P-10)
126	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (P-10)
127	MECHANICAL- SOIL AND ROCK	Soil	water content	IS 2720 (P-2)