National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DR.UPPAL'S TESTING AND ANALYTICAL LABORATORY (P) LTD., 240, INDUSTRIAL AREA PHASE 9, MOHALI, S.A.S NAGAR, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/01/2022 to 19/01/2024 **Last Amended on** -

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	(OPC & PPC)	Alumina (as Al2O3)	IS:4032
2	CHEMICAL- BUILDING MATERIAL	(OPC & PPC)	Calcium Oxide(as Cao)	IS:4032
3	CHEMICAL- BUILDING MATERIAL	(OPC & PPC)	Iron oxide(as Fe2o3)	IS:4032
4	CHEMICAL- BUILDING MATERIAL	(OPC & PPC)	Loss on Ignition	IS:4032
5	CHEMICAL- BUILDING MATERIAL	(OPC & PPC)	Magnesia (as MgO)	IS:4032
6	CHEMICAL- BUILDING MATERIAL	(OPC & PPC)	Silica(as Sio2)	IS:4032
7	CHEMICAL- BUILDING MATERIAL	(OPC & PPC)	Sulphuric Anhydride (as SO3)	IS:4032
8	CHEMICAL- BUILDING MATERIAL	(OPC& PPC)	Insoluble Matter	IS:4032
9	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS:9103
10	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS:9103
11	CHEMICAL- BUILDING MATERIAL	Admixture	PH Value	IS:9103
12	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS:9103
13	CHEMICAL- BUILDING MATERIAL	Admixture	Water Soluble Chloride	IS:6925
14	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Totel Sulphate Content SO3	IS:4032
15	CHEMICAL- BUILDING MATERIAL	Coarse Aggregates	Alkali Aggregate Reactivity (Result as per Graph)	IS:2386(P-7)
16	CHEMICAL- BUILDING MATERIAL	Coarse Aggregates	Alkali Aggregate Reactivity (Silica)	IS:2386(P-7)
17	CHEMICAL- BUILDING MATERIAL	Coarse Aggregates	Water Soluble chloride Content	IS 14959 : Part 2
18	CHEMICAL- BUILDING MATERIAL	Coarse Aggregates	Alkali Aggregate Reactivity (Reducation in alkalinity)	IS:2386(P-7)

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19	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali Aggregate Reactivity (Result as per Graph)	IS:2386(P-7)
20	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali Aggregate Reactivity (Reducation in alkalinity)	IS:2386(P-7)
21	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali Aggregate Reactivity (Silica)	IS:2386(P-7)
22	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Totel Sulphate Content SO3	IS:4032
23	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Water Soluble chloride Content	IS 14959 : Part 2
24	CHEMICAL- METALS & ALLOYS	Reinforcement Steel	Carbon (as C)	IS:228(P-1)
25	CHEMICAL- METALS & ALLOYS	Reinforcement Steel	Phosphorus (as P)	IS:228 (P-3)
26	CHEMICAL- METALS & ALLOYS	Reinforcement Steel	Sulphur (as S)	IS:228 (P-9)
27	CHEMICAL- WATER	Water for construction purpose	Chloride (as Cl) (mg/L)	IS:3025 (P-32)
28	CHEMICAL- WATER	Water for construction purpose	Acidity (Vol. of 0.02N NAOH required to neutralize 100ml Sample of Water using mixed indicator)	IS 3025(Part-22)
29	CHEMICAL- WATER	Water for construction purpose	Alkalinity(Vol. of 0.02N H2SO4 required to neutralize 100ml Sample of Water using mixed indicator)	IS: 3025 (P-23)
30	CHEMICAL- WATER	Water for construction purpose	PH Value	IS:3025 (P-11)
31	CHEMICAL- WATER	Water for construction purpose	Solids Fixed & Volatile) (a) Organic(Volatile)	IS;3025(P-18)
32	CHEMICAL- WATER	Water for construction purpose	Solids(Fixed & Volatile) (b) Inorganic(Fixed)	IS:3025 (P-18)
33	CHEMICAL- WATER	Water for construction purpose	Sulphate as (SO3) (mg/L)	IS:3025 (P-24)
34	CHEMICAL- WATER	Water for construction purpose	Suspended Solids	IS:3025(P-17)
35	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Compressive Strength	IS:4031 (P - 6)
36	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Final Setting time	IS:4031 (P - 5)
37	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Fineness by Blain's Method	IS:4031 (P-2)

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38	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Normal Consistency	IS:4031(P-4)
39	MECHANICAL- BUILDINGS MATERIALS	(OPC &PPC)	Density	IS:4031 (P-11)
40	MECHANICAL- BUILDINGS MATERIALS	(OPC &PPC)	Initial Setting Time	IS:4031(P-5)
41	MECHANICAL- BUILDINGS MATERIALS	(OPC &PPC)	Soundness : Le-Chatelier's method	IS:4031(P-3)
42	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimensions (length)	IS:1077
43	MECHANICAL- BUILDINGS MATERIALS	BRICK	Dimensions(Width)	IS:1077
44	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS:3495 (P-1)
45	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions(Height)	IS:1077
46	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS:3495 (P-3)
47	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS:3495 (P-2)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse	Aggregate Crushing Value	IS:2386 (P-4)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse	Aggregate Impact Value	IS:2386 (P-4)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse	Bulk Density	IS:2386 (P-3)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse	Elongation Index	IS:2386 (P-1)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse	Flakiness Index	IS:2386 (P-1)
53	MECHANICAL- BUILDINGS MATERIALS	Coarse	Los Angel's Abrasion Value	IS:2386 (P-4)
54	MECHANICAL- BUILDINGS MATERIALS	Coarse	Soundness (Na2So4)	IS:2386 (P-5)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse	Specific Gravity	IS:2386 (P-3)
56	MECHANICAL- BUILDINGS MATERIALS	Coarse	Water Absorption	IS:2386 (P-3)

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57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness(MgSO4)	IS:2386 (P-5)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% fine value	IS:2386(P-4)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Material Finer then 75 micron	IS 2386-Part-1
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Total Deleterious Material a) Coal & Lignite b) Clay Lumps c) Soft Fragments	IS:2386-Part-2
61	MECHANICAL- BUILDINGS MATERIALS	Coarse(4.75mm to 80mm)	Sieve Analysis	IS:2386 (P-1)
62	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength	IS:516
63	MECHANICAL- BUILDINGS MATERIALS	Conrete	Workability by Slump	IS:1199 (P-2)
64	MECHANICAL- BUILDINGS MATERIALS	Fine	Bulk Density	IS:2386 (P-3)
65	MECHANICAL- BUILDINGS MATERIALS	Fine	Organic Impurities	IS:2386 (P-2)
66	MECHANICAL- BUILDINGS MATERIALS	Fine	Specific Gravity	IS:2386 (P-3)
67	MECHANICAL- BUILDINGS MATERIALS	Fine	Water Absorption	IS:2386 (P-3)
68	MECHANICAL- BUILDINGS MATERIALS	Fine (75 micron to 10 mm)	Sieve Analysis	IS:2386 (P-1)
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer then 75 micron	IS:2386-Part-1
70	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Mica	SP-23
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (MgSO4)	IS:2386-Part-5
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness(Na2SO4)	IS:2386 (P-5)
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Total Deleterious Material a) Coal & Lignite b) Clay Lumps c) Silt & Clay d) Shale	IS:2386 (P-2)
74	MECHANICAL- BUILDINGS MATERIALS	Paver	Abrasion Value	IS:15658

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75	MECHANICAL- BUILDINGS MATERIALS	Paver	Compressive Strength	IS:15658
76	MECHANICAL- BUILDINGS MATERIALS	Paver	Dimensions(Length, Width, Thickness, Chamfer, Aspect ratio, Squareness, Thickness of Wearing layer, Plan area and wearing face area)	IS:15658
77	MECHANICAL- BUILDINGS MATERIALS	Paver	Flexural Strength	IS:15658
78	MECHANICAL- BUILDINGS MATERIALS	Paver	General	15658
79	MECHANICAL- BUILDINGS MATERIALS	Paver	Visual Inspection	IS:15658
80	MECHANICAL- BUILDINGS MATERIALS	Paver	Water Absorption	IS:15658
81	MECHANICAL- BUILDINGS MATERIALS	Pavers	Colour & Texture	IS: 15658
82	MECHANICAL- BUILDINGS MATERIALS	Pavers	Tensile Splitting Strength	IS:15658
83	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Penetration (1/10mm)	IS:1203
84	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen	Softening Point	IS:1205
85	MECHANICAL- BUILDINGS MATERIALS	Steel	Bend Test	IS:1599
86	MECHANICAL- BUILDINGS MATERIALS	Steel	Elongation	IS:1608 (P-1)
87	MECHANICAL- BUILDINGS MATERIALS	Steel	Mass Per Meter	IS:1786
88	MECHANICAL- BUILDINGS MATERIALS	Steel	Re-Bend Test	IS:1786
89	MECHANICAL- BUILDINGS MATERIALS	Steel	Tensile Strength	IS:1608 (P-1)
90	MECHANICAL- BUILDINGS MATERIALS	Steel	Yeild Stress	IS:1608(P-1)
91	MECHANICAL- SOIL AND ROCK	Rock	Uniaxial Compressive Strength	IS:9143
92	MECHANICAL- SOIL AND ROCK	Soil	CBR (Soaked)	IS:2720 (P-16)

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93	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of internal friction)	IS:2720(P-13)
94	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion)	IS:2720(P-13)
95	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS:2720 (P-40)
96	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Pipette Method) (75 micron-2 micron)	IS:2720 (P-4)
97	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve Analysis) (75 micron to 40 mm)	IS:2720 (P-4)
98	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS:2720 (P-8)
99	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS:2720 (P-8)
100	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS:2720 (P-7)
101	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS:2720 (P-7)
102	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS:2720 (P-5)
103	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS:2720 (P-5)
104	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS:2720 (P-3) Sec-2
105	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS:2720 (P-10)
106	MECHANICAL- WOOD AND WOOD PRODUCTS	Plyboard	Static Bending a) Modulus of Rupture	IS:1734 (P-11)
107	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Moisture Content	IS:1734 (P-1)
108	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Static Bending Test b) Modulus of Elasticity	IS:1734 (P-11)
109	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Water Resistance Test (Glue adhesion Test)	IS:1734 (P-6)
110	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber	Moisture Content by Oven Drying Method	IS:11215
111	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber	Specific Gravity	IS:1708 (P-2)