National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MUKESH A. PATEL TECHNICAL CONSULTANCY & CIVIL ENGINEERING LABORATORY, PLOT NO. E-217, ELECTRONIC ESTATE, G.I.D.C., SECTOR 26, GANDHINAGAR, GUJARAT, 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 (Annex–E)
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride ion	IS 6925 (Clause.5)
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry material Content	IS 9103 (Annex–E)
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103 (Annex–E)
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103 (Annex–E)
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Alumina	IS 4032 (Clause 4.6.1)
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Calcium Oxide	IS 4032 (Clause 4.7.1)
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Chloride	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Ferric Oxide	IS 4032 (Clause 4.5.1)
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Insoluble Residue (PPC and PSC)	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Insoluble Residue OPC	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Loss On Ignition	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Magnesium Oxide	IS 4032 (Clause 4.8.1)
14	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Potassium as K2O	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Silica	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Sodium as Na2O	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC and PSC)	Sulphuric Anhydride	IS 4032
18	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Aluminium	ASTM E 415

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19	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Carbon	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Chromium	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Copper	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Manganese	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Molybdenum	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Nickel	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Phosphorus	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Silicon	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Sulfur	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Vanadium	ASTM E 415
29	CHEMICAL- WATER	Water for construction purpose only	Acidity [Volume of 0.02 N NaOH required to neutralize 100ml of water sample using phenolphthalein as an indicator.(ml)]	IS 3025 (Part – 22)
30	CHEMICAL- WATER	Water for construction purpose only	Alkalinity [Volume of 0.02N H2SO4 required to neutralize 100ml of water sample using Mixed Indicator as an indicator.(ml)]	IS 3025 (Part – 23)
31	CHEMICAL- WATER	Water for construction purpose only	Chloride (Cl)	IS 3025 (Part – 32)
32	CHEMICAL- WATER	Water for construction purpose only	Fixed Residue	IS 3025 (Part – 18)
33	CHEMICAL- WATER	Water for construction purpose only	pH Value	IS 3025 (Part – 11)
34	CHEMICAL- WATER	Water for construction purpose only	Sulphate (SO3)	IS 3025 (Part – 24)
35	CHEMICAL- WATER	Water for construction purpose only	Total dissolved solids	IS 3025 (Part – 16)
36	CHEMICAL- WATER	Water for construction purpose only	Total Suspended solids	IS 3025 (Part – 17)
37	CHEMICAL- WATER	Water for construction purpose only	Volatile Residue	IS 3025 (Part – 18)

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38	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Compressive Strength	IS 6441 (Part–5)
39	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension - Height	IS 2185 (Part–3)
40	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension - Length	IS 2185 (Part–3)
41	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension - Width	IS 2185 (Part–3)
42	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Dry Density	IS 6441 (Part – 1)
43	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Drying and Shrinkage	IS 6441 (Part–2)
44	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Moisture Content	IS 6441 (Part – 1)
45	MECHANICAL- BUILDINGS MATERIALS	Autoclave Aerated Block	Thermal Conductivity	IS 3346
46	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Bitumen content	ASTM D 2172
47	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Density	ASTM D2726
48	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Flow	ASTM D 6927
49	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Design	Stability	ASTM D 6927
50	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Compressive Strength	IS 3495 (Part–1)
51	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Dimension - Height	IS 1077
52	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Dimension - Length	IS 1077
53	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Dimension - Width	IS 1077
54	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Efflorescence	IS 3495 (Part–3)
55	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Water absorption	IS 3495 (Part–2)
56	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 (Part–6)

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57	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part–4)
58	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part–11)
59	MECHANICAL- BUILDINGS MATERIALS	Cement	Final setting time	IS 4031 (Part–5)
60	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by blaine air permeability	IS 4031 (Part–2)
61	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving (% retained)	IS 4031 (Part – 1) Clause No.5
62	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting time	IS 4031 (Part–5)
63	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Autoclave Methods	IS 4031 (Part–3)
64	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le–chatelier methods	IS 4031 (Part–3)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386 (Part–4)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing value	IS 2386 (Part–4)
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation index	IS 2386 (Part–1)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness index	IS 2386 (Part–1)
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Gradation (4.75 mm to 125 mm)	IS 2386 (Part–1)
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact value	IS 2386 (Part–4)
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los angeles abrasion value	IS 2386 (Part–4)
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part–5)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific gravity	IS 2386 (Part–3)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Stripping Value	IS 6241
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water absorption	IS 2386 (Part–3)

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76	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive strength	IS 516
77	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength	IS 516
78	MECHANICAL- BUILDINGS MATERIALS	Concrete	Slump test	IS 1199 (Part-2)
79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 µ	IS 2386, Part 1
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Gradation (Sieve analysis – 0.075 to 10 mm sieve size)	IS 2386 (Part–1)
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness	IS 2386 (Part–5)
82	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific gravity	IS 2386 (Part–3)
83	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water absorption	IS 2386 (Part–3)
84	MECHANICAL- BUILDINGS MATERIALS	Flush Door	End immersion Test	IS 4020 (Part–13)
85	MECHANICAL- BUILDINGS MATERIALS	Flush Door	Glue adhesion Test	IS 4020 (Part–15)
86	MECHANICAL- BUILDINGS MATERIALS	Flush Door	Knife Test	IS 4020 (Part–14)
87	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive strength	IS 15658
88	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Flexural Strength	IS 15658
89	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water absorption	IS 15658
90	MECHANICAL- BUILDINGS MATERIALS	Pressed Ceramic Tiles / Ceramic Tiles	Co–efficient of linear Thermal Expansion From Ambient to 100° C	IS 13630 (Part–4)
91	MECHANICAL- BUILDINGS MATERIALS	Pressed Ceramic Tiles/ Ceramic Tiles	Breaking Strength	IS 13630 (Part–6)
92	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Crazing Resistance @75 bar	IS 13630 (Part–9)
93	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Dimension - L	IS 13630 (Part–1)

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94	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Dimension - T`	IS 13630 (Part–1)
95	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Dimension - W	IS 13630 (Part–1)
96	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Modulus of rupture	IS 13630 (Part–6)
97	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Moisture expansion	IS 13630 (Part–3)
98	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Rectangularity	IS 13630 (Part–1)
99	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Resistance to Deep Abrasion	IS 13630 (Part–12)
100	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Resistance to Surface Abrasion	IS 13630 (Part–11)
101	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Scratch hardness	IS 13630 (Part–13)
102	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Straightness of Sides	IS 13630 (Part–1)
103	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Surface Flatness	IS 13630 (Part–1)
104	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Surface Quality	IS 13630 (Part–1)
105	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Thermal Shock Resistance	IS 13630 (Part–5)
106	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Water absorption	IS 13630 (Part–2)
107	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	0.2 % proof stress	IS 1608 (Part-1)
108	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Bend	IS 1599
109	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Elongation	IS 1608 (Part –1)
110	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Mass per Meter (Nominal Mass)	IS 1786
111	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Rebend	IS 1786
112	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 (Part-1)

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113	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel	Yield stress	IS 1608 (Part-1)
114	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Material	Flash and Fire Point	IS 1201 to 1220
115	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Material	Solubility in Trichloroethylene	IS 1201 to 1220
116	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Material	Viscosity Ratio	IS 1201 to 1220
117	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Absolute Viscosity	IS 1201 to 1220
118	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Ductility	IS 1201 to 1220
119	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Kinematics Viscosity	IS 1201 to 1220
120	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Loss on heating	IS 1201 to 1220
121	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Penetration	IS 1201 to 1220
122	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Softening Point	IS 1201 to 1220
123	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Specific Gravity	IS 1201 to 1220
124	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe	Density	IS 12235 (Part-14)
125	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe	Outside Diameter	IS 12235, Clause No.4 (Part-1)
126	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe	Sulphated ash content	IS :12235 (Part–17), Method-B
127	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe	Wall Thickness	IS 12235, Clause No.5.1.2 (Part-1)
128	MECHANICAL- SOIL AND ROCK	Natural building stone	Apparent specific gravity	IS 1124
129	MECHANICAL- SOIL AND ROCK	Natural building stone	Compressive strength	IS 1121 (Part–1)
130	MECHANICAL- SOIL AND ROCK	Natural building stone	True Specific Gravity	IS 1122
131	MECHANICAL- SOIL AND ROCK	Natural building stone	Water absorption	IS 1124

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132	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compression Strength	IS 9143
133	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
134	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test	IS 2720 (Part–15)
135	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part–16)
136	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Angle (F)	IS 2720 (Part–13)
137	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test - Cohesion	IS 2720 (Part–13)
138	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part–40)
139	MECHANICAL- SOIL AND ROCK	Soil	Gradation (Sieve analysis – 0.075 to 125 mm sieve size)	IS 2720 (Part–4)
140	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part–5)
141	MECHANICAL- SOIL AND ROCK	Soil	Permeability (By Falling head method)	IS 2720 (Part–17)
142	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part–5)
143	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Modified / Heavy) - MDD	IS 2720 (Part–8)
144	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Modified / Heavy) - OMC	IS 2720 (Part–8)
145	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Standard / Light) - MDD	IS 2720 (Part–7)
146	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Standard / Light) - OMC	IS 2720 (Part–7)
147	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part–6)
148	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part–3, Sec-1)
149	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part–41)
150	MECHANICAL- SOIL AND ROCK	Soil	Tri axial test (Unconsolidated Undrained) -Cohesion	IS 2720 (Part–15)

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151	MECHANICAL- SOIL AND ROCK	Soil	Tri Axial test (unconsolidated Undrained) - Angle (F)	IS 2720 (Part-15)
152	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part–10)
153	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Half Cell Potential Test	ASTM C 876
154	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Rebound hammer test	IS 13311 (Part-2)
155	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity test	IS 516, Part-5, Sec:1

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Density by Core cutter method	IS 2720 (Part 29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Density by Sand Replacement	IS 2720 (Part 28)
3	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content	IS 2720 (Part 18)
4	MECHANICAL- SOIL AND ROCK	Soil Field Test	Standard Penetration Test	IS 2131
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Half Cell Potential Test	ASTM C 876
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Rebound hammer test	IS 13311 (Part-2)
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity test	IS 516, Part-5, Sec:1