National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TECHNOEDGE RESEARCH PVT LTD, PLOT NO D-167,SHOP NO3,4,5,6 TTC INDUSTRIAL AREA, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

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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	Cement	Insoluble Residue	IS 4032
2	CHEMICAL- BUILDING MATERIAL	Cement	Loss of ignition	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Chloride	BS EN 1744-1
4	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Sulphate	BS EN 1744-1
5	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Chloride	BS EN 1744-1
6	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Suphate	BS EN 1744-1
7	CHEMICAL- BUILDING MATERIAL	Liquid Admixture	Ash Content	IS 9103
8	CHEMICAL- BUILDING MATERIAL	Liquid Admixture	Chloride	IS 6925
9	CHEMICAL- BUILDING MATERIAL	Liquid Admixture	Dry Material Content	IS 9103
10	CHEMICAL- BUILDING MATERIAL	Liquid Admixture	pH	IS 9103
11	CHEMICAL- BUILDING MATERIAL	Liquid Admixture	Relative density	IS 9103
12	CHEMICAL- WATER	Construction Water	Acidity at pH8.3	IS 3025 (Part 22)
13	CHEMICAL- WATER	Construction Water	Alkalinity at pH 3.7	IS 3025 (Part 23)
14	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32)
15	CHEMICAL- WATER	Construction Water	Organic Solid	IS 3025 (Part 18)
16	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
17	CHEMICAL- WATER	Construction Water	Suphate	IS 3025 Part 24
18	CHEMICAL- WATER	Construction Water	Suspended Solid	IS 3025 (Part 17)
19	CHEMICAL- WATER	Construction Water	Total Dissolve Solid	IS 3025 (Part 16)
20	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Diamension Test	IS 2185 Part-3
21	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Moisture Content	IS 6441 Part-1

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22	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Bulk Density	IS 6441 Part-1
23	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Compressive Strength	IS 6441 Part-5
24	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IRC SP111984 Appendix 5 Clause C
25	MECHANICAL- BUILDINGS MATERIALS	Bituminous MIX	Marshall Flow	ASTM D 6927-15
26	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D 692715
27	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Sieve Analysis (45 mm,37.5mm,26.5 mm, 19 mm,13.2 mm ,9.5 mm ,4.75 mm ,2.36 mm ,1.18 mm ,600 µm,300 µm, 150 µm, 75 µm.)	IS 2386 (Part 1)
28	MECHANICAL- BUILDINGS MATERIALS	Brick (Pulveri zed Fuel Ash Brick) & Common Burnt Clay Building Block)	Compressive Strength	IS 3495 (Part I)
29	MECHANICAL- BUILDINGS MATERIALS	Brick (Pulveri zed Fuel Ash Brick) & Common Burnt Clay Building Block)	Dimension	IS 3495 Part III)
30	MECHANICAL- BUILDINGS MATERIALS	Brick (Pulveri zed Fuel Ash Brick) & Common Burnt Clay Building Block)	Water Absorption	IS 3495 (Part II)
31	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 Part-11
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC PPC & PSC)	Compressive Strength	IS 4031 (Part 6)
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC PPC & PSC)	Final Setting Time	IS 4031 (Part 5)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC PPC & PSC)	Fineness by dry Sieving	IS 4031 (Part 1)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC PPC & PSC)	Initial Setting Time	IS 4031 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC PPC & PSC)	Soundness By LeChatilier's method	IS 4031 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC PPC & PSC)	Standard Consistency	IS 4031 (Pat 4)
38	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension Test	IS 1360 Part-
39	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Specific Gravity	IS 13630 (Part 2)

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40	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630
41	MECHANICAL- BUILDINGS MATERIALS	Chequred Tiles	Diamension Test	IS 13801
42	MECHANICAL- BUILDINGS MATERIALS	Chequred Tile	Water Absorption	IS 13801
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1):
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (Seive analysis (125 mm, 100 mm,90 mm, 80mm, 75mm,63 mm,50mm,45 mm,40 mm, 37 mm,31.5 mm,25 mm,22.4 mm,20 mm,19 mm,16 mm, 12.5 mm,11.2 mm,10 mm,9.5 mm,8 mm,6.3 mm,4.75 mm, 4 mm,2.36 mm,2 mm,1.7 mm,1.18 mm,1 mm,600 µm,500 µm,425 µm,300 µm,212 µm, 150 µm,90 µm, 75 µm, 45 µm.)	IS 2386 (part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
53	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of cube	IS:516
54	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength of core	IS:516 (Part 4)

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55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 (Part 1)
57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (10 mm,9.5 mm,4.75 mm ,2.36 mm,1.18 mm,850 µm, 600 µm, 300 µm,250 µm, 150 µm,75 µm.)	IS 2386 (Part 1)
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
60	MECHANICAL- BUILDINGS MATERIALS	Flooring Test	Diamension Test	IS 13801
61	MECHANICAL- BUILDINGS MATERIALS	Flooring Tiles	Water Absorption	IS 1237
62	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam/Water Bound Macadam	Elongation Index	Specification for Road and Bridge Works (MORT& H):2013 Section 401,404& 406 (IS 2386 Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam/Water Bound Macadam	Flakiness Index	Specification for Road and Bridge Works (MORT& H):2013 Section 401,404& 406 (IS 2386(Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam/Water Bound Macadam	Impact Value	Specification for Road and Bridge Works (MORT& H):2013 Section 401,404& 406 (IS 2386 Part 4)
65	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam/Water Bound Macadam	Sieve analysis (75 mm, 63 mm, 53 mm, 45 mm ,37.5 mm, 26.5 mm, 22.4 mm, 19 mm ,13.2 mm, 11.2 mm,9.5 mm , 5.6 mm , 4.75 mm, 2.36 mm, 850 µm, 600 µm,425 µm, 300 µm,180 µm, 75 µm)	Specification for Road and Bridge Works (MORT& H):2013 Section 401,404& 406(IS 2386 Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base / Wet Mix Macadam/Water Bound Macadam	Water Absorption	Specification for Road and Bridge Works (MORT& H):2013 Section 401,404& 406 (IS 2386 Part 3)
67	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid concrete Block	Water Absorption	IS 2185 Part-1(ANNEX-E)

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68	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Compressive Strength	IS 2185 Part-1(ANNEX-D)
69	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Density	IS 2185 Part-1(ANNEX-C)
70	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
71	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Bar	rebend test (32 mm,40mm,48mm,72mm,84mm,96mm,112mm,128mm,150mm,175mm,192mm,224mm)	IS 1786
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Bar, Steel Plates.Chequered Plates,Dowel Bars,Hollow section,High Strength Steel Bar,Steel Tubes,GI Pipes	Ultimate tensile strength	IS 1608 Part-1
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Bar, Steel Plates.Chequered Plates,Dowel Bars,Hollow section,High Strength Steel Bar,Steel Tubes,GI Pipes	Bend Test(32 mm,36mm,48mm,64mm,128mm)	IS 1599
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Bar, Steel Plates.Chequered Plates,Dowel Bars,Hollow section,High Strength Steel Bar,Steel Tubes,GI Pipes	Elongation	IS 1608 Part-1
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Bar, Steel Plates.Chequered Plates,Dowel Bars,Hollow section,High Strength Steel Bar,Steel Tubes,GI Pipes	Weight Per meter Length	IS 1786 & IS 808
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Bar, Steel Plates.Chequered Plates,Dowel Bars,Hollow section,High Strength Steel Bar,Steel Tubes,GI Pipes	Yeild strength	IS 1608 Part-1
78	MECHANICAL- SOIL AND ROCK	Bentonite	Free Swell Index	IS 2720 (Part 40)
79	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit	IS 2720 (Part 5)
80	MECHANICAL- SOIL AND ROCK	Bentonite	Moisture content	IS 12446
81	MECHANICAL- SOIL AND ROCK	Rock	Brazilian Tensile Strength	IS 10082
82	MECHANICAL- SOIL AND ROCK	Rock	Moisture Content	IS 13030 (Part I)
83	MECHANICAL- SOIL AND ROCK	Rock	Specific gravity	Is 1122 (Part I)

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84	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength Test	IS 9143
85	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS 13030 (Part I)
86	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16)
87	MECHANICAL- SOIL AND ROCK	Soil	Consolidation	IS 2720 (Part 15)
88	MECHANICAL- SOIL AND ROCK	Soil	Density (Natural Dry, Saturated)	IS 2720 (Part 7 & 8)
89	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test(Angle of Fraction)	IS 2720(Part-13)
90	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test(Cohesion)	IS 2720 (Part 13)
91	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
92	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 4)
93	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS 2720 (Part 8)
94	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS 2720(Part 7)
95	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
96	MECHANICAL- SOIL AND ROCK	Soil	Moisture/Water Content	IS 2720(Part 2)
97	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
98	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
99	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3)
100	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil Field Test	Compaction (Core Cutter Method)	IS 2720 (Part 41)
2	MECHANICAL- SOIL AND ROCK	Soil Field Test	Compaction (Sand Replacement Method)	IS 2720 (Part 37)
3	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field CBR	IS 2720 (Part 31)