National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY LABORATORY SERVICES TESTING LABORATORY, D.NO.7-5-9, CHATTIVANIPALEM, AUTONAGAR, VISAKHAPATNAM, ANDHRA PRADESH, 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 CONTENT	IS 6925
3	CHEMICAL- BUILDING MATERIAL	ADMIXTURE	pH	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Cement	Aluminum Oxide	Cl 4.6.2 of IS 4032
5	CHEMICAL- BUILDING MATERIAL	Cement	Calcium Oxide	Cl 4.7.2 of IS 4032
6	CHEMICAL- BUILDING MATERIAL	Cement	Chlorides	Cl 4.13 of IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	Cl 4.10 of IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement	Iron Oxide	Cl 4.5.2 of IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement	Loss on Ignition	Cl 4.2 of IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement	Magnesium Oxide	Cl 4.8.2 of IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement	Silicon Dioxide	Cl 4.3 of IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement	Sulphide Sulphur	Cl 6.12 of IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydride	Cl 4.9 of IS 4032
14	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
15	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorous	IS 8811
16	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
17	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811
18	CHEMICAL- METALS & ALLOYS	Low Alloy Steels	Carbon	IS 8811
19	CHEMICAL- WATER	Drinking Water	Chlorides as Cl	IS 3025 Part 32

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20	CHEMICAL- WATER	Drinking Water	Fluorides as F	IS 3025 Part 60
21	CHEMICAL- WATER	Drinking Water	pH value	IS 3025 Part 11
22	CHEMICAL- WATER	Drinking Water	Sulphates as SO4	IS 3025 Part 24
23	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 Part 23
24	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 Part 16
25	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 Part 21
26	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 Part 10
27	CHEMICAL- WATER	Water for construction purpose	Acidity	IS 456
28	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS 456
29	CHEMICAL- WATER	Water for construction purpose	Chlorides as Cl	IS 3025 Part 32
30	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids	IS 3025 Part 18
31	CHEMICAL- WATER	Water for construction purpose	Organic Solids	IS 3025 Part 18
32	CHEMICAL- WATER	Water for construction purpose	pH value	IS 3025 Part 11
33	CHEMICAL- WATER	Water for construction purpose	Sulphates as SO3	IS 3025 Part 24
34	CHEMICAL- WATER	Water for construction purpose	Suspended Solids	IS 3025 Part 17
35	MECHANICAL- BUILDINGS MATERIALS	ADMIXTURE	Dry Material Content a) for Liquid Admixture b) for Solid Admixture	IS 9103
36	MECHANICAL- BUILDINGS MATERIALS	ADMIXTURE	Relative Density (for Liquid only)	IS 9103
37	MECHANICAL- BUILDINGS MATERIALS	BITUMEN	DUCTILITY	IS 1203
38	MECHANICAL- BUILDINGS MATERIALS	BITUMEN	FLASH POINT	IS 1209
39	MECHANICAL- BUILDINGS MATERIALS	BITUMEN	PENETRATION	IS 1203
40	MECHANICAL- BUILDINGS MATERIALS	BITUMEN	SOFTENING POINT	IS 1205
41	MECHANICAL- BUILDINGS MATERIALS	BITUMEN	VISCOSITY	IS 1206 PART 1
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	IRC SP 11; Appendix 5, Clause C
43	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Compressive Strength	IS 3495 Part 1

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44	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks	Water Absorption	IS 3495 Part 2
45	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 Part 6
46	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 Part 5
47	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability	IS 4031 Part 2
48	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 Part 5
49	MECHANICAL- BUILDINGS MATERIALS	Cement	Normal Consistency	IS 4031 Part 4
50	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier's Method	IS 4031 (Part 3)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	Cl 3.0 of IS 2386 Part 3
52	MECHANICAL- BUILDINGS MATERIALS	COARSE AGGREGATE	CRUSHING VALUE	IS 2386 PART 3
53	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	Cl 2.0 of IS 2386 Part 1
54	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	Clause 4.0 of IS 2386 Part 1
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	Cl 4.0 of IS 2386 Part 4
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	Cl 2.0 of IS 2386 Part 1
57	MECHANICAL- BUILDINGS MATERIALS	COARSE AGGREGATE	SOUNDNESS	IS 2386 PART 5
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	Cl 2.0 of IS 2386 Part 3
59	MECHANICAL- BUILDINGS MATERIALS	Cores	Compressive Strength	IS 516
60	MECHANICAL- BUILDINGS MATERIALS	Cubes	Compressive Strength	IS 516
61	MECHANICAL- BUILDINGS MATERIALS	FINE AGGREAGATE	SOUNDNESS	IS 2386 PART 4
62	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	Cl 3.0 of IS 2386 Part 3

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63	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking	Cl 4.0 of IS 2386 Part 3
64	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 Micron	Cl 3.0 of IS 2386 Part 1
65	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	Cl 2.0 of IS 2386 Part 1
66	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	Cl 2.0 of IS 2386 Part 3
67	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Compressive Strength	IS 3495 Part 1
68	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Water absorption	IS 3495 Part 2
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS METALS	% ELONGATION	IRS Part 2
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Bend Test	IS 1599
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Elongation	IS 1608-Part 1
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Rockwell Hardness Test (HRB)	IS 1586 Part 1
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Rockwell Hardness Test (HRC)	IS 1586-Part 1
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS METALS	TENSILE STRENGTH	IRS Part 2
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Tensile Strength	IS 1608-Part 1
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS METALS	YIELD STRENGTH	IRS Part 2
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals	Yield Strength	IS 1608-Part 1

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78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel Bars	% Elongation	IS 1608-Part 1
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel Bars	Bend Test	IS 1599
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel Bars	Rebend Test	IS 1786
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel Bars	Tensile Strength	IS 1608 Part 1
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel Bars	Weight per meter	IS 1786
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel Bars	Yield Strength	IS 1608 Part 1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Flattening Test	is 2328
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Face Bend	ASME Sec IX
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	FACE BEND	IACS UR W 28
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	FACE BEND	IACS UR W 32
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Root Bend	ASME Sec IX
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	ROOT BEND	IACS UR W 28
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	ROOT BEND	IACS UR W 32
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Side Bend	ASME Sec IX

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92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	SIDE BEND	IACS UR W 28
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	SIDE BEND	IACS UR W 32
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Transverse Tensile	ASME Sec IX
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDED PLATES & PIPES	TRANSVERSE TENSILE	IACS UR W 28
96	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 Part 16
97	MECHANICAL- SOIL AND ROCK	SOIL	DIRECT SHEAR TEST - C VALUE	IS 2720 (PART 13)
98	MECHANICAL- SOIL AND ROCK	SOIL	DIRECT SHEAR TEST - PHI VALUE	IS 2720 (PART 13)
99	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40
100	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 Part 4
101	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
102	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
103	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)
104	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
105	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Casagrande Method	Cl 3.0 of IS 2720 Part 5
106	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 Part 5
107	MECHANICAL- SOIL AND ROCK	SOIL	UCS	IS 2720 PART 10
108	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	REINFORCED CONCRETE STRUCTURES	Rebound Hammer Test	IS 13311 (PART 2)

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109	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	REINFORCED CONCRETE STRUCTURES	ULTRASONIC PULSE VELOCITY TEST	IS 516 (PART 5)