National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SURYA TECHNO LABORATORY, TEACHERS COLONY ,PRATAP NAGAR, KAKINADA, EAST GODAVARI, 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	Chlorides	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Aggregates	Alkali Aggregate Reactivity	IS 2386 (Part 7)
5	CHEMICAL- BUILDING MATERIAL	Aggregates	Dissolved silica	IS 2386 (Part 7)
6	CHEMICAL- BUILDING MATERIAL	Fly Ash/Pulverized Fuel Ash	Sulphuric anhydride	Cl.5.10 of IS:1727
7	CHEMICAL- BUILDING MATERIAL	Fly Ash/Pulverized Fuel Ash/Silica Fume	Loss on Ignition	Cl.5.3 of IS:1727
8	CHEMICAL- BUILDING MATERIAL	Fly Ash/Pulverized Fuel Ash/Silica Fume	Silicon as SiO2	Cl.5.4 of IS:1727
9	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Aluminium as Al2O3	Cl.4.6.2 of IS: 4032
10	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Calcium as CaO	Cl.4.7.2 of IS: 4032
11	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Chloride as Cl	Cl.4.13of IS: 4032
12	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Insoluble Residue	Cl.4.10 of IS: 4032
13	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Iron as Fe2O3	Cl.4.5.2 of IS: 4032
14	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Loss on Ignition	Cl.4.2 of IS: 4032
15	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Magnesium as MgO	Cl.4.8.2 of IS: 4032
16	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Silica as SiO2	Cl.4.3 of IS: 4032
17	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC/GGBS	Sulphuric anhydride	Cl.4.9 of IS: 4032
18	CHEMICAL- BUILDING MATERIAL	PSC/GGBS	Sulphide as Sulphur	Cl.6.12 of IS: 4032

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19	CHEMICAL- BUILDING MATERIAL	Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel	Galvanization	IS 6745
20	CHEMICAL- BUILDING MATERIAL	Soil & Rock	Organic Matter	IS : 2720 (Part 22)
21	CHEMICAL- BUILDING MATERIAL	Soil & Rock	pH	IS 2720 (Part 26)
22	CHEMICAL- BUILDING MATERIAL	Soil & Rock	Soluble Sulphate	BS :1377 (part-3)
23	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Arsenic	is 8811
24	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Boron	IS 8811
25	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Carbon	IS 8811
26	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Chromium	IS 8811
27	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Copper	IS 8811
28	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Manganese	IS 8811
29	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Nickel	IS 8811
30	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Niobium	IS 8811
31	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Phosphorus	IS 8811
32	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Tin	IS 8811
33	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Titanium	IS 8811
34	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Tungsten	IS 8811
35	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Aluminum	IS 8811
36	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Cobalt	IS 8811
37	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Cobalt	IS 8811

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38	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Molybdenum	IS 8811
39	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Silicon	IS 8811
40	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Sulphur	IS 8811
41	CHEMICAL- METALS & ALLOYS	Low Carbon Alloy	Vanadium	IS 8811
42	CHEMICAL- WATER	Construction water	Acidity:Volume in ml of 0.02 N NaOH required to Neutalize 100 ml sample using Phenolpthalein indicator	IS 3025(Part-22)
43	CHEMICAL- WATER	Construction water	Alkalinity:Volume in ml of 0.02 N H2SO4 required to Neutalize 100 ml sample using mixed indicator	IS 3025(Part-23)
44	CHEMICAL- WATER	Construction water	Chloride as Cl	IS 3025(Part-32)
45	CHEMICAL- WATER	Construction water	In Organic solids	IS 3025(Part-18)
46	CHEMICAL- WATER	Construction water	Organic Solids	IS 3025(Part-18)
47	CHEMICAL- WATER	Construction water	pH	IS 3025(Part-11)
48	CHEMICAL- WATER	Construction water	Sulphates as SO3	IS 3025(Part-24)
49	CHEMICAL- WATER	Construction water	Total suspended Solids	IS 3025(Part-17)
50	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Alkalinity	IS 3025(Part-23)
51	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Calcium	IS 3025(Part-40)
52	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Chloride as Cl	IS 3025(Part-32)
53	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Free Residual chlorine	IS 3025(Part-26)
54	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Magnesium	IS 3025(Part-46)
55	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	pH	IS 3025(Part-11)
56	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Sulphates as SO4	IS 3025(Part-24)
57	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Total Dissolved solids	IS 3025(Part-16)

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58	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Total Hardness	IS 3025(Part-21)
59	CHEMICAL- WATER	Drinking water/surface water/Ground water/Industrial water/Irrigation water	Total suspended Solids	IS 3025(Part-17)
60	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Block Density	IS 6441 (Part 1)
61	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5)
62	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension - Height	IS 2185 (Part 3)
63	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension - Length	IS 2185 (Part 3)
64	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension -Width	IS 2185 (Part 3)
65	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS 6441 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	Admixture	Dry Material Content	IS 9103
67	MECHANICAL- BUILDINGS MATERIALS	Admixture	Relative Density	IS 9103
68	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Sieve Analysis (4.75 to 80 mm)	IS 2386 (Part 1)
69	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	10% Fine Value	IS 2386 (Part 4)
70	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Bulk Density	IS 2386 (Part 3)
71	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Crushing Value	IS 2386 (Part 4)
72	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Impact Value	IS 2386 (Part 4)
73	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Soundness (Na2so4 & MgSo4)	IS 2386 (Part 5)
74	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Specific Gravity	IS 2386 (Part 3)
75	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Elongation	IS 2386 (Part 1)
76	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Flakiness	IS 2386 (Part 1)

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77	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse)	Water Absorption	IS 2386 (Part 3)
78	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Bulk Density	IS 2386 (Part 3)
79	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Sieve Analysis (0.075 to 4.75 mm)	IS 2386 (Part 1)
80	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Soundness (Na2so4 & MgSo4)	IS 2386 (Part 5)
81	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Specific Gravity	IS 2386 (Part 1)
82	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Water Absorption	IS 2386 (Part 3)
83	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part 2)
84	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1203
85	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS : 1448 (Part 69)
86	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part 3)
87	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
88	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
89	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in trichloroethylene	IS 1216
90	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue by Evaporation	IS 8887
91	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 microns	IS 8887
92	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage Stability after 24 hr	IS 8887
93	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Sayboltfurol viscometer	IS 3117
94	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion (Cationic Type)	Distillation in % volume of distillate recovered at 316C	IS:1213
95	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion (Cationic Type)	Miscibility with water	Annexure-H IS:8887

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96	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion (Cationic Type)	Particle charge	Annexure-E of IS:8887
97	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion (Cationic Type)	Stability to mixing with cement	Annexure-G of IS:8887
98	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion (Cationic Type)	Water Content	IS:1211
99	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	IRC:SP:112
100	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bulk Density	ASTM D 2726
101	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow	ASTM D 6927
102	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Stability	ASTM D 6927
103	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions - Length	IS 1077
104	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions - Width	IS 1077
105	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimensions - Depth	IS 1077
106	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Fly Ash Bricks / Fly Ash Lime Bricks	Compressive Strength	IS 3495 (Part 1)
107	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Fly Ash Bricks / Fly Ash Lime Bricks	Efflorescence	IS 3495 (Part 3)
108	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Fly Ash Bricks / Fly Ash Lime Bricks	Water Absorption	IS 3495 (Part 2)
109	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Final Setting Time	IS 4031 (Part 5)
110	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Initial Setting Time	IS 4031 (Part 5)
111	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Soundness by Le-Chateliers Method	IS 4031 (Part 3)
112	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Standard Consistency	IS 4031 (Part 4)
113	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)/GGBS	Compressive Strength	IS 4031 (Part 6)
114	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)/GGBS	Fineness by Blaine's Air Permeability	IS 4031 (Part 2)

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115	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Polished Stone Value	BS :812-114
116	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks/Hollow/ Solid	Compressive Strength	IS 2185 (Part 1)
117	MECHANICAL- BUILDINGS MATERIALS	Concrete Blocks/Hollow/ Solid	Water Absorption	IS 2185 (Part -1)
118	MECHANICAL- BUILDINGS MATERIALS	Concrete (Core)	Compressive Strength of Hardened Concrete	IS 516 (part 4)
119	MECHANICAL- BUILDINGS MATERIALS	Concrete (Cube)	Compressive Strength of Hardened Concrete	IS 516 (part 1/ Sec 1)
120	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sand Equivalent Value	IS 2720 Part-37
121	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by Blaine's Air Permeability Method	IS 1727
122	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Lime reactivity	IS 1727
123	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions (DEPTH)	IS 12894
124	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions (Length)	IS 12894
125	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions (Width)	IS 12894
126	MECHANICAL- BUILDINGS MATERIALS	Fly ash/Silica Fume	Compressive Strength	IS 1727
127	MECHANICAL- BUILDINGS MATERIALS	Fly ash/Silica Fume	Residue on 45 Microns	IS 1727
128	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
129	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Re-Bend Test	IS 1786
131	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes/Mild Steel & Medium tensile steel bars for concrete	Bend Test	IS 1599 part1

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132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes/Mild Steel & Medium tensile steel bars for concrete	Elongation	IS 1608 part1
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes/Mild Steel & Medium tensile steel bars for concrete	Tensile Strength	IS 1608 part1
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes/Mild Steel & Medium tensile steel bars for concrete	Yield Stress	IS 1608 part1
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes	Weight per Meter	IS 1786
136	MECHANICAL- SOIL AND ROCK	Granular soils	Coefficient of Permeability	IS : 2720 (Part 36)
137	MECHANICAL- SOIL AND ROCK	Soil	Coefficient of Permeability	IS : 2720 (Part 17)
138	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
139	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 2720 (Part 7)
140	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
141	MECHANICAL- SOIL AND ROCK	Soil	Tri axial shear Test-F	IS:2720(P-11 & 12)
142	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Angle of Internal Friction	IS:2720 (Part 11)
143	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Angle of Internal Friction	IS:2720 (Part 12)
144	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS:2720 (Part 11)
145	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression - Cohesion	IS:2720 (Part 12)
146	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression strength	IS 2720 Part -10
147	MECHANICAL- SOIL AND ROCK	Soil/Fly Ash/GSB	California Bearing Ratio	IS 2720 (Part 16)

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148	MECHANICAL- SOIL AND ROCK	Soil/Fly Ash/GSB	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part 13)
149	MECHANICAL- SOIL AND ROCK	Soil/Fly Ash/GSB	Direct Shear - Cohesion	IS 2720 (Part 13)
150	MECHANICAL- SOIL AND ROCK	Soil/Fly Ash/GSB	Grain Size Analysis (0.015 to 19 mm)	IS 2720 (Part 4)
151	MECHANICAL- SOIL AND ROCK	Soil/Fly Ash/GSB/WMM	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
152	MECHANICAL- SOIL AND ROCK	Soil/Fly Ash/GSB/WMM	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
153	MECHANICAL- SOIL AND ROCK	Soil/GSB	Liquid Limit	IS 2720 (Part 5)
154	MECHANICAL- SOIL AND ROCK	Soil/GSB	Plastic Limit	IS 2720 (Part - 4)
155	MECHANICAL- SOIL AND ROCK	Soil/GSB/WMM	Moisture Content	IS 2720 (Part 2)

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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine)	Bulking	IS 2386 (Part 3)
2	MECHANICAL- SOIL AND ROCK	Soil	K-Value Test	IS 9214
3	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888
4	MECHANICAL- SOIL AND ROCK	Soil	Standard Penetration Test	IS 2131
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Bridge Superstructure Load Test	IRC SP:51
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Crack Depth	IS 516 (Part 5/ Sec1)
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer	IS 516 (Part 5/ Sec4)
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 (Part 5/ Sec1)