SCOPE OF ACCREDITATION

Laboratory Name : SHIVAM QUALITY TEST HOUSE, PLOT NO-195, ARYA NAGAR, MOHNA ROAD, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9196 **Page No** 1 of 7

Validity 04/01/2021 to 03/01/2023 **Last Amended on** 11/01/2021

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	Dry Material Content	IS: 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	pH Value	IS: 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS: 9103
5	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Alumina	IS: 4032
6	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Calcium Oxide	IS: 4032
7	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Chloride	IS: 4032
8	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Insoluble Residue	IS: 4032
9	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Iron Oxide	IS: 4032
10	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Loss on Ignition	IS: 4032
11	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Magnesium Oxide	IS: 4032
12	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Silica	IS: 4032
13	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Sulphuric Anhydride	IS: 4032
14	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement	Insoluble Residue	IS: 4032
15	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement	Loss on Ignition	IS: 4032
16	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement	Magnesium Oxide	IS: 4032
17	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement	Sulphuric Anhydride	IS: 4032
18	CHEMICAL- CORROSION TESTS	Mettalic products and Raw Materials	Salt Spray Test	IS: 9844

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9196	**Page No**	2 of 7
Validity	04/01/2021 to 03/01/2023	**Last Amended on**	11/01/2021

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19	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Carbon	IS: 228 (P-1)
20	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Chromium	IS: 228 (P-6)
21	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Manganese	IS: 228 (P-2)
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Molybdenum	IS: 228 (P-7)
23	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Nickel	IS: 228 (P-5)
24	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Phosphorous	IS: 228 (P-3)
25	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Silicon	IS: 228 (P-8)
26	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Sulphur	IS: 228 (P-9)
27	CHEMICAL- WATER	Construction Water	Acidity	IS: 3025 (P-22)
28	CHEMICAL- WATER	Construction Water	Alkalinity	IS: 3025 (P-23)
29	CHEMICAL- WATER	Construction Water	Chloride	IS: 3025 (P-32)
30	CHEMICAL- WATER	Construction Water	In Organic Solids	IS: 3025 (P-18)
31	CHEMICAL- WATER	Construction Water	Organic Solids	IS: 3025 (P-18)
32	CHEMICAL- WATER	Construction Water	pH Value	IS: 3025 (P-11)
33	CHEMICAL- WATER	Construction Water	Sulphate as So3	IS: 3025 (P-24)
34	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS: 3025 (P-17)
35	CHEMICAL- WATER	Drinking Water	Alkalinity	IS: 3025 (P-23)
36	CHEMICAL- WATER	Drinking Water	Calcium	IS: 3025 (P-40)
37	CHEMICAL- WATER	Drinking Water	Chloride	IS: 3025 (P-32)
38	CHEMICAL- WATER	Drinking Water	Magnesium	IS: 3025 (P-46)
39	CHEMICAL- WATER	Drinking Water	Odour	IS: 3025 (P-5)
40	CHEMICAL- WATER	Drinking Water	pH Value	IS: 3025 (P-11)
41	CHEMICAL- WATER	Drinking Water	Residual Free chlorine	IS: 3025 (P-26)
42	CHEMICAL- WATER	Drinking Water	Specific Conductivity	IS: 3025 (P-14)
43	CHEMICAL- WATER	Drinking Water	Sulphate	IS: 3025 (P-24)
44	CHEMICAL- WATER	Drinking Water	Total dissolved Solid	IS: 3025 (P-16)

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9196 **Page No** 3 of 7

Validity 04/01/2021 to 03/01/2023 **Last Amended on** 11/01/2021

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
45	CHEMICAL- WATER	Drinking Water	Total Hardness	IS: 3025 (P-21)
46	CHEMICAL- WATER	Ground Water	Alkalinity	IS: 3025 (P-23)
47	CHEMICAL- WATER	Ground Water	Calcium	IS: 3025 (P-40)
48	CHEMICAL- WATER	Ground Water	Chloride	IS: 3025 (P-32)
49	CHEMICAL- WATER	Ground Water	Magnesium	IS: 3025 (P-46)
50	CHEMICAL- WATER	Ground Water	Odour	IS: 3025 (P-5)
51	CHEMICAL- WATER	Ground Water	pH Value	IS: 3025 (P-11)
52	CHEMICAL- WATER	Ground Water	Residual Free Chlorine	IS: 3025 (P-26)
53	CHEMICAL- WATER	Ground Water	Specific Conductivity	IS: 3025 (P-14)
54	CHEMICAL- WATER	Ground Water	Sulphate	IS: 3025 (P-24)
55	CHEMICAL- WATER	Ground Water	Total Dissolved Solid	IS: 3025 (P-16)
56	CHEMICAL- WATER	Ground Water	Total Hardness	IS: 3025 (P-21)
57	CHEMICAL- WATER	Surface Water	Alkalinity	IS: 3025 (P-23)
58	CHEMICAL- WATER	Surface Water	Calcium	IS: 3025 (P-40)
59	CHEMICAL- WATER	Surface Water	Chloride	IS: 3025 (P-32)
60	CHEMICAL- WATER	Surface Water	Odour	IS: 3025 (P-5)
61	CHEMICAL- WATER	Surface Water	pH Value	IS: 3025 (P-11)
62	CHEMICAL- WATER	Surface Water	Residual Free Chlorine	IS: 3025 (P-26)
63	CHEMICAL- WATER	Surface Water	Specific Conductivity	IS: 3025 (P-14)
64	CHEMICAL- WATER	Surface Water	Sulphate	IS: 3025 (P-24)
65	CHEMICAL- WATER	Surface Water	Total Dissolve Solid	IS: 3025 (P-16)
66	CHEMICAL- WATER	Surface Water	Total Hardness	IS: 3025 (P- 21)
67	MECHANICAL- BUILDINGS MATERIALS	Brunt Clay Bricks	Compressive Strength	IS: 3495 (P-1)
68	MECHANICAL- BUILDINGS MATERIALS	Brunt Clay Bricks	Dimension (Height)	IS: 1077
69	MECHANICAL- BUILDINGS MATERIALS	Brunt Clay Bricks	Dimension (Length)	IS: 1077
70	MECHANICAL- BUILDINGS MATERIALS	Brunt Clay Bricks	Dimension (Width)	IS: 1077
71	MECHANICAL- BUILDINGS MATERIALS	Brunt Clay Bricks	Efflorescence	IS: 3495 (P-3)

SCOPE OF ACCREDITATION

Laboratory Name : SHIVAM QUALITY TEST HOUSE, PLOT NO-195, ARYA NAGAR, MOHNA ROAD, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9196 **Page No** 4 of 7

Validity 04/01/2021 to 03/01/2023 **Last Amended on** 11/01/2021

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
72	MECHANICAL- BUILDINGS MATERIALS	Brunt Clay Bricks	Water Absorption	IS: 3495 (P-2)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS: 2386 (P-4)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS: 2386 (P-3)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Combined Flakiness & Elongation Index	IS: 2386 (P-1)
76	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS: 2386 (P-4)
77	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS: 2386 (P-4)
78	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer than 75 Micron	IS: 2386 (P-1)
79	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 80mm, 75mm, 63mm, 53mm, 45mm, 40mm, 26.5mm, 22.4mm, 20mm, 16mm, 12.5mm, 11.2mm, 10mm, 9.5mm, 4.75mm, 2.36mm, 425 micron)	IS: 2386 (P-1)
80	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS: 2386 (P-3)
81	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS: 2386 (P-3)
82	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS: 516
83	MECHANICAL- BUILDINGS MATERIALS	Cylindrical Concrete Core	Compressive Strength	IS: 516 (Part-4)
84	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS: 2386 (P-3)
85	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 Micron	IS: 2386 (P-1)
86	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 10mm, 4.75mm, 2.36mm, 1.18mm, 600 micron, 300 micron, 150 micron)	IS: 2386 (P-1)
87	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS: 2386 (P-3)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9196	**Page No**	5 of 7
Validity	04/01/2021 to 03/01/2023	**Last Amended on**	11/01/2021

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88	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS: 2386 (P-3)
89	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement	Compressive Strength	IS: 4031 (P-6)
90	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement	Consistency	IS: 4031 (P-4)
91	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement	Final Setting Time	IS: 4031 (P-5)
92	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement	Fineness By Blain's Air permeability method	IS: 4031 (P-2)
93	MECHANICAL- BUILDINGS MATERIALS	Ordinary Portland Cement	Initial Setting Time	IS: 4031 (P-5)
94	MECHANICAL- BUILDINGS MATERIALS	Ordinary portland Cement	Soundness by Le-Chatelier	IS: 4031 (P-3)
95	MECHANICAL- BUILDINGS MATERIALS	Paving Blocks	Compressive Strength	IS: 15658
96	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Compressive Strength	IS: 4031 (P-6)
97	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Consistency	IS: 4031 (P-4)
98	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Final Setting Time	IS: 4031 (P-5)
99	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Fineness by Blain's Air Permeability	IS: 4031 (P-2)
100	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Initial Setting Time	IS: 4031 (P-5)
101	MECHANICAL- BUILDINGS MATERIALS	Portland Pozzolana Cement	Soundness by Le-Chatelier	IS: 4031 (P-3)
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	IS: 1599
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Elongation	IS: 1608 (P-1)
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Re-Bend	IS: 1786

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9196 **Page No** 6 of 7

Validity 04/01/2021 to 03/01/2023 **Last Amended on** 11/01/2021

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105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Reduction Area	IS: 1608 (P-1)
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness Test "B" Scale	IS: 1586 (P-1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Rockwell Hardness Test "C" Scale	IS: 1586 (P-1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Ultimate Tensile Strength	IS: 1608 (P-1)
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Yield Stress	IS: 1608 (P-1)
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous	Rockwell Hardness Test "B" Scale	IS: 1586 (P-1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass/meter	IS: 1786 2008
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials	Face Bend	ASME Section-IX
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials	Root Bend	ASME Section-IX
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials	Side Bend	ASME Section-IX
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Materials	Ultimate Tensile Strength	ASME Section-IX
116	MECHANICAL- SOIL AND ROCK	Granular Sub Base by Sand replacement method	Field Dry Density	IS: 2720 (P-28)
117	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core cutter method	IS: 2720 (P-29)
118	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Sand replacement method	IS: 2720 (P-28)
119	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Gravel)	IS: 2720 (P-4)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9196 **Page No** 7 of 7

Validity 04/01/2021 to 03/01/2023 **Last Amended on** 11/01/2021

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120	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sand)	IS: 2720 (P-4) 1985
121	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS: 2720 (P-5)
122	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density (Heavy Compaction)	IS: 2720 (P-8)
123	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density -Light compaction	IS: 2720 (P-7)
124	MECHANICAL- SOIL AND ROCK	Soil	Natural Moisture Content	IS: 2720 (P-2)
125	MECHANICAL- SOIL AND ROCK	Soil	Optimum moisture Content - Light compaction	IS: 2720 (P-7)
126	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content (Heavy)	IS: 2720 (P-8)
127	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS: 2720 (P-5)
128	MECHANICAL- SOIL AND ROCK	Soil	Plasticity Index	IS: 2720 (P-5)
129	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam	Field Dry Density by Sand replacement method	IS: 2720 (P-28)