National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 1 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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- WATER	Construction Water	Chloride content as Cl	IS 3025 (Part-32)
2	CHEMICAL- WATER	Construction Water	Fixed Residues (Inorganic Solids)	IS 3025 (Part-18)
3	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part-11)
4	CHEMICAL- WATER	Construction Water	Sulphate content as SO3	IS 3025 (Part-24) Clause 4
5	CHEMICAL- WATER	Construction Water	To neutralize 100 ml. Sample of water, using mixed indicator, using 0.02 normal H2SO4	IS 3025 (Part-23)
6	CHEMICAL- WATER	Construction Water	To neutralize 100 ml. Sample of water, using phenolpthalein as an indicator, using 0.02 normal NaOH	IS 3025 (Part-22)
7	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part-17)
8	CHEMICAL- WATER	Construction Water	Volatile Residues (Organic Solids)	IS 3025 (Part-18)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 Part-II
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic viscosity	IS 1206 part-III
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on heating	IS 1212
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
15	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202
16	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	ASTM D 2172
17	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density of Mix	ASTM D2726
18	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D6927

SCOPE OF ACCREDITATION

Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 2 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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
19	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927
20	MECHANICAL- BUILDINGS MATERIALS	Burnt clay / Fuel ash Building Bricks	Compressive strength	IS 3495 (Part-1)
21	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay / Fuel ash Building Bricks	Efflorescence	IS 3495 (Part-3)
22	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay / Fuel ash Building Bricks	Water absorption	IS 3495 (Part-2)
23	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension, Length	IS 1077
24	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimensions, Thickness	IS 1077
25	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimensions, Width	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength @ 28 days	IS 4031 part-6
27	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength @ 7 days	IS 4031 part-6
28	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive strength at 3 days	IS 4031 (Part-6)
29	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 part-11
30	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting time	IS 4031 (Part-5)
31	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by blain air permeability	IS 4031 (Part-2)
32	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Sieving	IS 4031 part-1
33	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part-5)
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Le-Chattalier	IS 4031 (Part-3)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Standard Consistency	IS 4031 (Part-4)
36	MECHANICAL- BUILDINGS MATERIALS	Cement Mortar	Compressive Strength	IS 2250

SCOPE OF ACCREDITATION

Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 3 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate Reactivity test, (Potentiality of reactivity based on Rc & Sc result)	IS 2386, part-VII
38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis 10 mm.	IS 2386 part I
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis 4.75 mm.	IS 2386 part-I
40	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Material Finer than 75 micron	IS 2386 (Part-1)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10 % Fine Value	IS 2386 (Part-4)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part-3)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part-4)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part-1)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part-1)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part-4)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los angels' Abrasion value	IS 2386 (Part IV)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve analysis 20 mm.	IS 2386 (Part-1)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Soundness by MgSO4 / Na2SO4	IS 2386 (Part-5)
50	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part-3)
51	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water absorption	IS 2386 (Part-3)
52	MECHANICAL- BUILDINGS MATERIALS	Concrete	Accelerated cured Concrete (Compressive Strength)	IS 9013
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Alkali Aggregate Reactivity test, (Potentiality of reactivity based on Rc & Sc result)	IS 2386, part-VII
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 (Part-1)

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Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 4 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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
55	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis, % Passing, 4.75 mm.	IS 2386 (Part-1)
56	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO4 & Na2SO4	IS 2386 (Part-5)
57	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
58	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Part-3)
59	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part-3)
60	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Clay, Fine Silt & fine Dust	IS 2386 (Part-2)
61	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test (Workability of Fresh Concrete)	IS 1199 part-II
62	MECHANICAL- BUILDINGS MATERIALS	Fuel ash Building Bricks	Dimensions - Length	IS 12894
63	MECHANICAL- BUILDINGS MATERIALS	Fuel Ash Building Bricks	Dimensions, Thickness	IS 12894
64	MECHANICAL- BUILDINGS MATERIALS	Fuel Ash Building Bricks	Dimensions, Width	IS 12894
65	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength of Cores	IS 516 Sec-4
66	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength of Cubes	IS 516 Sec 1
67	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Blocks	Drying Shrinkage	IS 2185 part-I
68	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Block	Block Density	IS 2185 (Part-1)
69	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Block	Compressive strength	IS 2185 (Part-1)
70	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Block	Dimensions, Length	IS 2185 (Part-1)
71	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Block	Water Absorption	IS 2185 part-I
72	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Blocks	Dimensions, Thickness	IS 2185 part-I
73	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Blocks	Dimensions, Width	IS 2185 part-I

SCOPE OF ACCREDITATION

Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 5 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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74	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS 15658
75	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimensions - Thickness	IS 15658
76	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Abrasion Resistance	IS 15658
77	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions - Length	IS 15658
78	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions - Width	IS 15658
79	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Thickness of wearing Layer	IS 15658
80	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Visual Inspection	IS 15658
81	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
82	MECHANICAL- BUILDINGS MATERIALS	Road Furnishing	Compressive Strength (Breaking load) of Road Strud / Cat eyes / RPM	ASTM D 4280
83	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Binder Content	BS 3262-1 (Withdrawn standard)
84	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Determination of Glass Beads Content	BS 3262-1 (Withdrawn standard)
85	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Flow Resistance	BS 3262-1 (Withdrawn standard)
86	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Grading of Constituents	BS 3262-1 (Withdrawn standard)
87	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Softening Point	BS 3262-1 (Withdrawn standard)
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium / Copper Sections (Sheets, Strips, Flats, Sections & Bars) & Wire	Weight per Meter	IS 1786
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium /Copper Sections (Sheets, Strips, Flats, Sections & Bars) & Wire	% of Elongation	IS 1608 (Part-1)
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium /Copper Sections (Sheets, Strips, Flats, Sections & Bars) & Wire	Tensile Strength	IS 1608 (Part-1)

SCOPE OF ACCREDITATION

Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 6 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium/ Copper Sections (Sheets, Strips, Flats, Sections & Bars) & Wire	Yield Stress	IS 1608 (Part-1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steels (Sheets, Strips, Flats, Sections & Bars) & Wire	Rebend Test	IS 1786
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steels (Sheets, Strips, Flats, Sections & Bars) & Wire	Tensile Strength	IS 1608 (Part-1)
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steels(Sheets, Strips, Flats, Sections & Bars) & Wire	% of Elongation	IS 1608 (Part-1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steels(Sheets, Strips, Flats, Sections & Bars) & Wire	Bend Test	IS 1599
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steels(Sheets, Strips, Flats, Sections & Bars) & Wire	Weight per Meter	IS 1786
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steels(Sheets, Strips, Flats, Sections & Bars) & Wire	Yield Stress	IS 1608 (Part-1)
98	MECHANICAL- SOIL AND ROCK	Soils	Determination of Density Index (Relative Density) of Cohesion less Soils	IS 2720 part-14
99	MECHANICAL- SOIL AND ROCK	Building Stone, Rubble	Compressive Strength	IS 1121 part-I
100	MECHANICAL- SOIL AND ROCK	Building Stone, Rubble	Specific Gravity	IS 1124
101	MECHANICAL- SOIL AND ROCK	Building Stone, Rubble	Water Absorption	IS 1124
102	MECHANICAL- SOIL AND ROCK	Clays	Free Swell Index	IS 2720 part 40
103	MECHANICAL- SOIL AND ROCK	Clays	Swelling Pressure	IS 2720 part-41
104	MECHANICAL- SOIL AND ROCK	Clays & Soils	Consolidation Test, Coefficient of Consolidation Cv	IS 2720 part-15
105	MECHANICAL- SOIL AND ROCK	Clays & Soils	Consolidation test, Compression Index 'Cc'	IS 2720 part-15
106	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear test, angle of internal friction 'phi'	IS 2720 part-13

SCOPE OF ACCREDITATION

Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 7 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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107	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear test, Cohesion 'C'	IS 2720 part 13
108	MECHANICAL- SOIL AND ROCK	Clays & Soils	Grain size analysis, Gravel	IS 2720 part-4
109	MECHANICAL- SOIL AND ROCK	Clays & Soils	Grain size analysis, Sand	ISS 2720 part-4
110	MECHANICAL- SOIL AND ROCK	Clays & Soils	Grain size analysis, Silt + clay	IS 2720 part-4
111	MECHANICAL- SOIL AND ROCK	Clays & Soils	Liquid Limit by one point cone penetrometer	IS 2720 part-5
112	MECHANICAL- SOIL AND ROCK	Clays & Soils	Moisture Content	ISS 2720 part-2
113	MECHANICAL- SOIL AND ROCK	Clays & Soils	Plastic Limit	IS 2720 part-5
114	MECHANICAL- SOIL AND ROCK	Clays & Soils	Shrinkage Limit	IS 2720 part-6
115	MECHANICAL- SOIL AND ROCK	Clays & Soils	Specific Gravity	IS 2720 part-3
116	MECHANICAL- SOIL AND ROCK	Clays & Soils	Triaxial Shear, UU test, Angle of internal friction 'phi'	IS 2720 part-11
117	MECHANICAL- SOIL AND ROCK	Clays & Soils	Triaxial Shear, UU test, Cohesion 'C'	IS 2720 part-13
118	MECHANICAL- SOIL AND ROCK	Clays & Soils	Unconfined compression test	IS 2720 part-10
119	MECHANICAL- SOIL AND ROCK	Field Moisture content by Core cutting Method	Measurement of Field Moisture content	IS 2720 part-29
120	MECHANICAL- SOIL AND ROCK	Field Moisture content by Sand Replacement Method	Measurement of Field Moisture content	IS 2720 part-28
121	MECHANICAL- SOIL AND ROCK	Soil & Subgrade	California Bearing Ratio	IS 2720 part-16
122	MECHANICAL- SOIL AND ROCK	Soil & Subgrade	Heavy Compaction, MDD	IS 2720 part-8
123	MECHANICAL- SOIL AND ROCK	Soil & Subgrade	Heavy Compaction, OMC	IS 2720 part-8
124	MECHANICAL- SOIL AND ROCK	Soil & Subgrade	Light Compaction, MDD	IS 2720 Part-7
125	MECHANICAL- SOIL AND ROCK	Soil & Subgrade	Light compaction, OMC	IS 2720 part-7

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Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 8 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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126	MECHANICAL- SOIL AND ROCK	Stone Dust / Filler Material	Liquid Limit	IS 2720 part-5
127	MECHANICAL- SOIL AND ROCK	Stone Dust / Filler Material	Plastic Limit	IS 2720 part-5
128	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	High Visibility Retroreflective Clothing	Measurement of Coefficient of Retroreflection of High Visibility Retroreflective Cloth using Retroreflectometer @ 0.2 degree observation angle	ASTM E 1809
129	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Road Sign Sheet Testing	Measurement of Coefficient of Retroreflection of Retro Sign using Retroreflectometer @ 0.5 degree observation angle	ASTM E 2540
130	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Road Sign Sheet Testing	Measurement of Coefficient of Retroreflection of Retro Sign using Retroreflectometer @ 1 degree observation angle	ASTM E 2540

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Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 9 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Field density by core cutting method	Measurement of Field Density	IS:2720 (Part-29)
2	MECHANICAL- SOIL AND ROCK	Field density by Sand replacement Method	Measurement of Field density	IS 2720 part 28
3	MECHANICAL- SOIL AND ROCK	Field Moisture content by Core cutting Method	Measurement of Field Moisture content	IS 2720 part-29
4	MECHANICAL- SOIL AND ROCK	Field Moisture content by Sand Replacement Method	Measurement of Field Moisture content	IS 2720 part-28
5	MECHANICAL- SOIL AND ROCK	RCC Pile	Lateral load testing	IS 2911 part-4
6	MECHANICAL- SOIL AND ROCK	RCC Pile	Pile load tasting, Vertical load	IS 2911 part-4
7	MECHANICAL- SOIL AND ROCK	RCC Pile	Pull out load testing	IS 2911 part-4
8	MECHANICAL- SOIL AND ROCK	Soil & Sub Grade	Dynamic Cone Penetration Test (DCPT)	IS 4968 Part 1
9	MECHANICAL- SOIL AND ROCK	Soil & Sub Grade	Field CBR test	IS 2720 part-31
10	MECHANICAL- SOIL AND ROCK	Soil & Sub Grade	Plate Load test	IS 1888
11	MECHANICAL- SOIL AND ROCK	Soil & Sub Grade	Standard Penetration Test (SPT)	IS 2131
12	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Bridge loading	Bridge load test	IRC SP 51
13	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Carbonation	IS 516 part-5 sec-3
14	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Rebound Hammer Test	IS 516 part-5, sec-4
15	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Ultrasonic Pulse Velocity test	IS 516 (Part -5/sec.)-1)

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Laboratory Name : JAYSHREE ENGINEERING SERVICES, KATPUR ROAD, RAJPUR, PATAN, GUJARAT, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-6748 **Page No** 10 of 10
Validity 26/03/2022 to 25/03/2024 **Last Amended on** 28/09/2022

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16	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Flexible Pavement Strength	Benkelman Beam Deflection Test	IRC 81
17	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	High Visibility Retroreflective Clothing	Measurement of Coefficient of Retroreflection of High Visibility Retroreflective Cloth using Retroreflectometer @ 0.2 degree observation angle	ASTM E 1809
18	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Pile	Pile Integrity Test	ASTM D5882
19	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Half Cell Potential Difference test	ASTM C 876
20	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Road Sign Sheet Testing	Measurement of Coefficient of Retroreflection of Retro Sign using Retroreflectometer @ 0.2 degree observation angle	ASTM E 1709
21	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Road Sign Sheet Testing	Measurement of Coefficient of Retroreflection of Retro Sign using Retroreflectometer @ 0.5 degree observation angle	ASTM E 2540
22	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Road Sign Sheet Testing	Measurement of Coefficient of Retroreflection of Retro Sign using Retroreflectometer @ 1 degree observation angle	ASTM E 2540
23	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Road Surfacing	Road Roughness Test	IRC SP 16