National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 1 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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 Testing				
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	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Water Soluble Chloride Content (Cl)	IS 6925
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Alumina (Al2O3)	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Calcium oxide (CaO)	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Chloride as Cl-	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Ferric oxide (Fe2O3)	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Insoluble Residue	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Loss of Ignition	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Magnesia (MgO)	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Silica (SiO2)	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement (OPC)	Sulphuric Anhydride (SO3)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Chloride as Cl	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Insoluble Residue	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Los of Ignition	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Magnesia (MgO)	IS 4032
19	CHEMICAL- BUILDING MATERIAL	Cement (PPC)	Sulphuric Anhydride(SO3)	IS 4032

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 2 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
20	CHEMICAL- BUILDING MATERIAL	Coarse Aggregates	Alkali Aggregate reactivity - Dissolved Silica	IS 2386 (Part 7)
21	CHEMICAL- BUILDING MATERIAL	Coarse Aggregates	Alkali Aggregate reactivity - Reduction in Alkalinity (RC)	IS 2386 (Part 7)
22	CHEMICAL- BUILDING MATERIAL	Fine Aggregates	Alkali Aggregate reactivity - Dissolved Silica	IS 2386 (Part 7)
23	CHEMICAL- BUILDING MATERIAL	Fine Aggregates	Alkali Aggregate reactivity - Reduction in Alkalinity (RC)	IS 2386 (Part 7)
24	CHEMICAL- BUILDING MATERIAL	Fly Ash	Alumina (Al2O3)	IS 1727
25	CHEMICAL- BUILDING MATERIAL	Fly Ash	Ferric oxide (Fe2O3)	IS 1727
26	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss of Ignition	IS 1727
27	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia (MgO)	IS 1727
28	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica (SiO2)	IS 1727
29	CHEMICAL- METALS & ALLOYS	Low Allow Steel	% Chromium	IS 8811
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Aluminum	IS 8811
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Carbon	IS 8811
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Manganese	IS 8811
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Molybdenum	IS 8811
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Nickel	IS 8811
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Phosphorus	IS 8811
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Silicon	IS 8811
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	% Sulphur	IS 8811
38	CHEMICAL- SOIL AND ROCK	Bentonite	pH Value	IS 6186
39	CHEMICAL- SOIL AND ROCK	Soil	Calcium Carbonate (CaCO3)	IS 2720 (Part 23)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 3 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
40	CHEMICAL- SOIL AND ROCK	Soil	Chloride	BS 1377 (Part 3) (Clause 9.2.7)
41	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part 22)
42	CHEMICAL- SOIL AND ROCK	Soil	pH	IS 2720 (Part 26)
43	CHEMICAL- SOIL AND ROCK	Soil	Total soluble Sulphates (SO4)	IS 2720 (Part 27)
44	CHEMICAL- WATER	Drinking Water	Apparent Colour	IS 3025 (Part 4)
45	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40)
46	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS:3025 (Part-32)
47	CHEMICAL- WATER	Drinking Water	Conductivity at 25 °C	IS:3025 (Part 14)
48	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part 46)
49	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
50	CHEMICAL- WATER	Drinking Water	pH Value at 27°C	IS 3025 (Part 11)
51	CHEMICAL- WATER	Drinking Water	Sulphate as So4	IS 3025 (Part 24/Sec 1)
52	CHEMICAL- WATER	Drinking Water	Total Alkalinity (as CaCo3)	IS 3025 (Part 23)
53	CHEMICAL- WATER	Drinking Water	Total dissolved solids (TDS)	IS 3025 (Part 16)
54	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCo3)	IS 3025 (Part 21)
55	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
56	CHEMICAL- WATER	Water for construction purpose	Acidity (Volume of 0.02N NaOH required to neutralise 100ml)	IS 3025 (Part-22)
57	CHEMICAL- WATER	Water for construction purpose	Alkalinity (Volume of 0.02N H2SO4 required to neutralise 100ml)	IS 3025 (Part 23)
58	CHEMICAL- WATER	Water for construction purpose	Chloride as Cl	IS 3025 (Part 32)
59	CHEMICAL- WATER	Water for construction purpose	Inorganic Matter	IS 3025 (Part 18)
60	CHEMICAL- WATER	Water for construction purpose	NON-FILTERABLE RESIDUE (SUSPENDED SOLIDS)	IS 3025 (Part-17)
61	CHEMICAL- WATER	Water for construction purpose	Organic Matter	IS 3025 (Part-18)
62	CHEMICAL- WATER	Water for construction purpose	pH Value at 27°C	IS 3025 (Part 11)
63	CHEMICAL- WATER	Water for construction purpose	Sulphate as So4	IS 3025 (Part 24) Sec-1)
64	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Cellular Concrete Blocks	Compressive Strength	IS 6441 (Part 5)

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 4 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
65	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Cellular Concrete Blocks	Dimension (Height)	IS 2185 (Part 3)
66	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Cellular Concrete Blocks	Dimension (Length)	IS 2185 (Part 3)
67	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Cellular Concrete Blocks	Dimension (Width)	IS 2185 (Part 3)
68	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Cellular Concrete Blocks	Moisture Content	IS 6441 (Part 1)
69	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix	Bulk Specific Gravity and Density	ASTMD 2726
70	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix/Bituminous Core	Marshall flow	IS 17127
71	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix/Bituminous Core	Marshall Stability Test	IS 17127
72	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Bituminous Mix/Bituminous Core	Theoretical Maximum Specific Gravity and Density	ASTMD 2041
73	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Compressive strength	IS 3495(Part 1)
74	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Dimension (Height)	IS 1077
75	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Dimension (Length)	IS 1077

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 5 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
76	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Dimension (Width)	IS 1077
77	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Efflorescence	IS 3495 (Part 3)
78	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Water absorption (at 27 °C)	IS 3495(Part 2)
79	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Compressive Strength	IS 4031 (Part 6)
80	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Density	IS 4031 (Part 11)
81	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Final Setting Time	IS 4031 (Part 5)
82	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Fineness By Blain	IS 4031 (Part 2)
83	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Fineness by Dry Sieving	IS 4031(Part 1)
84	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Initial setting time	IS 4031(Part 5)
85	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Normal Consistency	IS 4031(Part 4)
86	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Soundness by Autoclave	IS 4031(Part 3)

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 6 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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87	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (OPC)	Soundness by La-Chatelier	IS 4031(Part 3)
88	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	Density	IS 4031 (Part 11)
89	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	Determination of Compressive Strength of Hydraulic Cement other than masonry cement	IS 4031 (Part 6)
90	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	DETERMINATION OF CONSISTENCY OF STANDARD CEMENT PASTE	IS 4031 (Part 4)
91	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	DETERMINATION OF FINAL SETTING TIMES	IS 4031 (Part 5)
92	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	DETERMINATION OF INITIAL SETTING TIMES	IS 4031 (Part 5)
93	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	Fineness By Blain	IS 4031 (Part 2)
94	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	Fineness by Dry Sieving	IS 4031(Part 1)
95	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	Soundness by Autoclave	IS 4031(Part 3)
96	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Cement (PPC)	Soundness by La-Chatelier	IS 4031(Part 3)
97	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386(Part 4)

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 7 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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98	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Aggregate Impact	IS 2386 (Part 4) Clause 4
99	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Bulk Density	IS 2386 (Part 3) Clause 3
100	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Crushing Value	IS 2386(Part 4)
101	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Elongation Index	IS 2386 (Part 1) Clause 5
102	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Flakiness Index	IS 2386 (Part 1) Clause 4
103	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Los Angeles Abrasion Value	IS 2386(Part 4)
104	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Sieve Analysis (80mm,75 mm, 63mm, 50mm,53mm, 40mm,45mm, 31.5mm, 25mm, 22.4mm, 20mm, 16mm, 13.2mm,12.5mm,11.2mm, 10mm,9.5mm, 6.3mm,5.6mm, 4.75mm, 3.35mm, 2.36mm, 1.18mm, 850 micron ,600micron, 300micron,180 micron, 150micron, 75micron)	IS 2386 (Part 1)
105	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Soundness by MgSo4	IS 2386(Part 5)
106	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Soundness by Na2So4	IS 2386(Part 5)
107	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Specific Gravity	IS 2386 (Part 3) Clause 2

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 8 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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108	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate/Ballast/WMM/GSB/WBM	Water Absorption	IS 2386 (Part 3) Clause 2
109	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Concrete (Concrete Cube)	Compressive Strength	IS 516
110	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Concrete Mix/Cement treated sub-base/Shotcrete/PQC	Flexural Strength	IS 516 (Part 1) Sec 1
111	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine aggregate/Sand	Material finer than 75 Micron	IS 2386(Part 1)
112	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate/Sand	Slit Content	IS 2386(Part 2)
113	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate/Sand	Soundness by MgSO4	IS 2386(Part 5)
114	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate/Sand	Soundness by Na2SO4	IS 2386 (Part 5)
115	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates/Sand	Bulk Density	IS 2386 (Part 3) Clause 3
116	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates/Sand	Sieve Analysis (4.75mm, 3.35mm, 2.36mm, 1.18mm, 600micron, 300micron, 150micron, 75micron)	IS 2386 (Part 1)
117	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates/Sand	Specific Gravity	IS 2386 (Part 3) Clause 2.4.2
118	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregates/Sand	Water Absorption	IS 2386 (Part 3) Clause 2.4.2

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 9 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
119	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fresh Concrete Mix	Workability by Slump Test	IS 1199 (Part 2)
120	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete (Concrete Core)	Compressive Strength	IS 516 (Part 4)
121	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Absolute Viscosity at 60	IS 1206(Part 2) Clause 4.1.1
122	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Ductility	IS 1208(Part 1)
123	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Flash Point	IS 1209 Clause 4
124	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Kinematic viscosity at 135 deg C	IS 1206(Part 3)
125	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Penetration	IS 1203
126	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Softening Point	IS 1205
127	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Industrial/Paving/Polymer Modified Bitumen	Specific Gravity	IS 1202 Clause 3
128	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Block	Dimensions- Width	IS 15658
129	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Block	Compressive Strength	IS 15658

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 10 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
130	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Block	Dimensions- Length	IS 15658
131	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Block	Dimensions- Thickness	IS 15658
132	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Block	Water Absorption	IS 15658
133	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	0.2% Proof Stress	IS 1608(Part 1)
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Bend Test	IS 1599 Clause 4.3
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Elongation	IS 1608 (Part 1)
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Mass per meter	IS 1786
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Ratio of TS/YS	IS 1608 (Part 1)
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Re-bend Test	IS 1786 Clause 9.4
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Ultimate Tensile Strength	IS 1608 (Part 1)
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bars/steel rebar/Wire/High Strength Deformed Steel Bars/Structural Steel (Sheets, Strips, Flats, Sections & Bars)/Reinforcement Coupler	Yield stress	IS 1608 (Part 1)
141	MECHANICAL- SOIL AND ROCKS	Bentonite	Dry fineness by 75 micron sieve	IS 6186
142	MECHANICAL- SOIL AND ROCKS	Bentonite	Moisture , Percent by Mass	IS 6186
143	MECHANICAL- SOIL AND ROCKS	Bentonite	Sand content	IS 6186
144	MECHANICAL- SOIL AND ROCKS	Bentonite	swelling power	IS 6186

SCOPE OF ACCREDITATION

Laboratory Name : RELIANT FOUNDATIONS PRIVATE LIMITED, SUNPOLO COLONY, DIPAR BORO PATH, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 11 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
145	MECHANICAL- SOIL AND ROCKS	Rock	Point Load Strength Index	IS 8764
146	MECHANICAL- SOIL AND ROCKS	Rock	Tensile Strength by Brazilian Test	IS 10082
147	MECHANICAL- SOIL AND ROCKS	Rock	Unconfined Compressive Strength	IS 9143
148	MECHANICAL- SOIL AND ROCKS	Soil & Clay	Sieve Analysis (20 mm, 19 mm, 4.75 mm, 2 mm, 425 µ, 80 mm, 63 mm, 50 mm, 40 mm, 31.5 mm, 25 mm, 20 mm, 16 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm, 4.75 mm, 3.35 mm, 2.36 mm, 2.36 mm, 1.7 mm, 1.18 mm, 600 µ, 300 µ, 150 µ, 75 µ, 90 mic)	IS 2720(Part 4) Clause 5.2
149	MECHANICAL- SOIL AND ROCKS	Soil & Clay	Specific Gravity	IS 2720(Part 3), Sec-1
150	MECHANICAL- SOIL AND ROCKS	Soil & Clay	Water Content	IS 2720 (Part 2)
151	MECHANICAL- SOIL AND ROCKS	Soil & Clay/Ballast/WMM/GSB/WBM	Liquid Limit	IS 2720(Part 5)
152	MECHANICAL- SOIL AND ROCKS	Soil & Clay/Ballast/WMM/GSB/WBM	Plastic Limit	IS 2720(Part 5)
153	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	CBR Test	IS 2720(Part 16)
154	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Consolidation Test (Co-efficient of Consolidation) (Cc)	IS 2720 (Part 15)
155	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Direct Shear Test , F	IS 2720 (Part 13)
156	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Direct Shear Test , Cohesion	IS 2720 (Part 13)
157	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Heavy Compaction Test - Maximum Dry Density	IS 2720(Part 8)
158	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Heavy Compaction Test - Optimum Moisture Content	IS 2720(Part 8)
159	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Light Compaction Test- Maximum Dry Density	IS 2720 (Part 7)
160	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Light Compaction Test- Optimum Moisture Content	IS 2720(Part 7)
161	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Shrinkage Limit	IS 2720 (Part 4)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-13005 **Page No** 12 of 14

Validity 02/02/2026 to 01/02/2030 **Last Amended on** 30/04/2026

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
162	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Triaxial Compression Test , Cohesion	IS 2720 (Part 11)
163	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Triaxial Compression Test , F	IS 2720 (Part 11)
164	MECHANICAL- SOIL AND ROCKS	Soil/Clay/Ballast/WMM/GSB/WBM	Unconfined Compression Test	IS 2720 (Part 10)

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Certificate Number TC-13005 **Page No** 13 of 14

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Site Testing				
1	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Cellular Concrete Blocks	Bulk Density	IS 6441 (Part 1)
2	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate/Sand	Bulking of Sand	IS 2386 (Part 3)
3	MECHANICAL- SOIL- FIELD	Concrete Pile	Lateral Load Test	IS 2911 (Part 4)
4	MECHANICAL- SOIL- FIELD	Concrete Pile	Pull Out Uplift	IS 2911 (Part 4)
5	MECHANICAL- SOIL- FIELD	Concrete Pile	Vertical Load Compression	IS 2911 (Part 4)
6	MECHANICAL- SOIL- FIELD	Soil	Cyclic Plate Load Test	IS 5249
7	MECHANICAL- SOIL- FIELD	Soil	Field CBR Test	IS 2720 (Part 31)
8	MECHANICAL- SOIL- FIELD	Soil	Field Dry Density by Core-Cutter Method	IS 2720 (Part 29)
9	MECHANICAL- SOIL- FIELD	Soil	Field Dry Density by the Sand Replacement Method	IS 2720 (Part 28)
10	MECHANICAL- SOIL- FIELD	Soil	Rapid Determination of Water Content from the Gas Pressure using Calcium Carbide	IS 2720 (Part 2) Sec-5
11	MECHANICAL- SOIL- FIELD	Soil	Static Plate Load Test	IS 1888
12	MECHANICAL- SOIL- FIELD	Soil & Rock	Earth Resistivity Test of Soil (Wenners method)	IS 3043
13	MECHANICAL- SOIL- FIELD	Soil & Rock	Standard Penetration Test	IS 2131
14	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Pile Integrity Test	IS 14983
15	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Bridge Load Test	IRC SP-51
16	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Carbonation Depth Test	IS 516 (Part 5) Sec 3
17	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Depth Test	BS 1881 (Part 204)

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Certificate Number TC-13005 **Page No** 14 of 14

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18	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Half Cell Potential	IS 516 (Part 5) Sec-2
19	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer Test	IS 516 (Part 5) Sec-4
20	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultra sound Pulse Velocity Test	IS 516 (Part 5) Sec -1