National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KERALA HIGHWAY RESEARCH INSTITUTE - TESTING LABORATORY, KHRI -CAMPUS, KARYAVATTOM, THIRUVANANTHAPURAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9198 **Page No** 1 of 5

Validity 06/01/2023 to 05/01/2025 **Last Amended on** 03/02/2023

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	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206: Part 2
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	ASTM D2172/ D2172M-17
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1201 to 1220
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Viscosity – Kinematic	IS 1206: Part 3
8	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495: Part 1
9	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495: Part 3
10	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495: Part 2
11	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031: Part 6
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031: Part 11
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031: Part 5
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031: Part 1
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031: Part 5
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Le-Chatlier Method)	IS 4031: Part 3
17	MECHANICAL- BUILDINGS MATERIALS	Cement	Standard Consistency	IS 4031: Part 4
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386: Part 4

SCOPE OF ACCREDITATION

Laboratory Name : KERALA HIGHWAY RESEARCH INSTITUTE - TESTING LABORATORY, KHRI -CAMPUS, KARYAVATTOM, THIRUVANANTHAPURAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9198 **Page No** 2 of 5

Validity 06/01/2023 to 05/01/2025 **Last Amended on** 03/02/2023

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	Coarse Aggregate	Bulk Density (Loose)	IS 2386: Part 3
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density (Rodded)	IS 2386: Part 3
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386: Part 1
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386: Part 1
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386: Part 4
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (75micron to 80mm)	IS 2386: Part 1
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386: Part 3
26	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386: Part 3
27	MECHANICAL- BUILDINGS MATERIALS	Concrete Cores	Compressive Strength	IS 516: Part 4
28	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 (Part 1/Sec 1)
29	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386: Part 3
30	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk density (Rodded)	IS 2386: Part 3
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (75 micron to 10 mm)	IS 2386: Part 1
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386: Part 3
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386: Part 3
34	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
35	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
36	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bars	Elongation percent	IS 1608: Part 1
37	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bars	Mass Per Meter	IS 1786

SCOPE OF ACCREDITATION

Laboratory Name : KERALA HIGHWAY RESEARCH INSTITUTE - TESTING LABORATORY, KHRI -CAMPUS, KARYAVATTOM, THIRUVANANTHAPURAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9198 **Page No** 3 of 5

Validity 06/01/2023 to 05/01/2025 **Last Amended on** 03/02/2023

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
38	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bars	Ultimate Tensile Strength	IS 1608: Part 1
39	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Steel Bars	Yield Stress	IS 1608: Part 1
40	MECHANICAL- BUILDINGS MATERIALS	Solid Blocks	Compressive Strength	IS 2185: Part 1
41	MECHANICAL- BUILDINGS MATERIALS	Solid Blocks	Water Absorption	IS 2185: Part 1
42	MECHANICAL- SOIL AND ROCK	Soil	CBR - Unsoaked	IS 2720: Part 16
43	MECHANICAL- SOIL AND ROCK	Soil	CBR (Soaked)	IS 2720: Part 16
44	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Compression Index	IS 2720: Part 15
45	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Initial Void Ratio	IS 2720: Part 15
46	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720: Part 40
47	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis- by Dry Sieving (75 micron- 75mm)	IS 2720: Part 4
48	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis- by Hydrometer Analysis (0.2 micron to 75 micron)	IS 2720: Part 4
49	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis- by Wet Sieving (75 micron to 75mm)	IS 2720: Part 4
50	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction(MDD)	IS 2720: Part 8
51	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction(OMC)	IS 2720: Part 8
52	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(MDD)	IS 2720: Part 7
53	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction(OMC)	IS 2720: Part 7
54	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit - Cone Penetrometer Apparatus	IS 2720: Part 5: Clause 4 & 6
55	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit (Casagrande Apparatus)	IS 2720: Part 5: Clause 3 & 5

SCOPE OF ACCREDITATION

Laboratory Name :	KERALA HIGHWAY RESEARCH INSTITUTE - TESTING LABORATORY, KHRI -CAMPUS, KARYAVATTOM, THIRUVANANTHAPURAM, KERALA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9198	**Page No**	4 of 5
Validity	06/01/2023 to 05/01/2025	**Last Amended on**	03/02/2023

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
56	MECHANICAL- SOIL AND ROCK	Soil	Permeability - Constant Head	IS 2720: Part 17
57	MECHANICAL- SOIL AND ROCK	Soil	Permeability - Falling Head	IS 2720: Part 17
58	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720: Part 5
59	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720: Part 6
60	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720: Part 3: Sec 1
61	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720: Part 10
62	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720: Part 2

SCOPE OF ACCREDITATION

Laboratory Name :	KERALA HIGHWAY RESEARCH INSTITUTE - TESTING LABORATORY, KHRI -CAMPUS, KARYAVATTOM, THIRUVANANTHAPURAM, KERALA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9198	**Page No**	5 of 5
Validity	06/01/2023 to 05/01/2025	**Last Amended on**	03/02/2023

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
Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Carbonation Test	BS EN 14630
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Cover Meter Test	BS 1881 Part 204
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Half Cell Potential difference test	ASTM C876
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Rebound Hammer Test	ASTM C805/C805M
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Rebound Hammer Test	IS 516: Part 5: Sec 4
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Ultrasonic Pulse Velocity Tests	IS 516: Part 5/section 1