National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RESEARCH LABORATORY, PWD (B&R), NABHA ROAD, PATIALA, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10647 **Page No** 1 of 5
Validity 27/05/2022 to 26/05/2024 **Last Amended on** -

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 (Industrial/Paving)	Ductility Test	IS 1208
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving)	Penetration Test	IS 1203
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified Bitumen)	Flash Point	IS 1209
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Industrial/Paving/Polymer Modified Bitumen)	Softening Point	IS 1205
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Paving)	Absolute Viscosity at 60 deg C	IS 1206 (Part 2)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Paving)	Kinematic Viscosity at 135 deg C	IS 1206 (Part 3)
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen (Paving)	Solubility in Trichloroethylene	IS 1216
8	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Core	Bitumen Content by Ignition method	ASTM D 6307
9	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix/Soil	Density by Nuclear Density Gauge method	AASHTO T310
10	MECHANICAL- BUILDINGS MATERIALS	Bricks/Heavy Duty Burnt Clay Building Bricks/ Pulverized Fly ash -Lime Bricks	Compressive Strength	IS 3495 (Part I)
11	MECHANICAL- BUILDINGS MATERIALS	Bricks/Heavy Duty Burnt Clay Building Bricks/ Pulverized Fly ash -Lime Bricks	Dimensions (Common Burnt Clay Building Bricks)	IS 1077
12	MECHANICAL- BUILDINGS MATERIALS	Bricks/Heavy Duty Burnt Clay Building Bricks/ Pulverized Fly ash -Lime Bricks	Water Absorption	IS 3495 (Part II)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031(Part 6)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
16	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
17	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Flatness	IS 13801
18	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Perpendiculairty	IS 13801

SCOPE OF ACCREDITATION

Laboratory Name : RESEARCH LABORATORY, PWD (B&R), NABHA ROAD, PATIALA, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10647 **Page No** 2 of 5
Validity 27/05/2022 to 26/05/2024 **Last Amended on** -

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	Chequered Cement Concrete Tile	Straightness	IS 13801
20	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Water Absorption	IS 13801
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Bulk Density	IS 2386 (Part III)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Impact Value	IS 2386 (Part 4)
23	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Sieve Analysis (Gradation)	IS 2386 (Part 1)
24	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Specific Gravity	IS 2386(Part III)
25	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate/Ballast	Water ABsorption	IS 2386 (Part III)
26	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength (Core)	IS 516 (Part 4)
27	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength (Cube)	IS 516 (Part-1/Sec-1)
28	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength	IS 516 (Part-1/Sec-1)
29	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Fineness Modulus	IS 2386 (Part I)
30	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Gradation)	IS 2386 (Part I)
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part III)
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part III)
33	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS 15658
34	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
35	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS 15658
36	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
37	MECHANICAL- BUILDINGS MATERIALS	Steel Bars, High Strength Deformed Steel Bars & Reinforcement Coupler	Nominal Mass (Weight per Meter)	IS 1786

SCOPE OF ACCREDITATION

Laboratory Name : RESEARCH LABORATORY, PWD (B&R), NABHA ROAD, PATIALA, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10647 **Page No** 3 of 5
Validity 27/05/2022 to 26/05/2024 **Last Amended on** -

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	Steel Bars, High Strength Deformed Steel Bars & Reinforcement Coupler	Percent Elongation	IS 1608 (Part 1)
39	MECHANICAL- BUILDINGS MATERIALS	Steel Bars, High Strength Deformed Steel Bars & Reinforcement Coupler	Tensile Strength	IS 1608 (Part-1)
40	MECHANICAL- BUILDINGS MATERIALS	Steel Bars, High Strength Deformed Steel Bars & Reinforcement Coupler	Yield Stress/ 0.2% Proof Stress	IS 1608 (Part 1)
41	MECHANICAL- SOIL AND ROCK	Soil	Californa Bearing Ratio (CBR)	IS 2720 (Part 16)
42	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Dry Sieve Analysis)	IS 2720 (Part IV)
43	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Wet Sieve Analysis)	IS 2720 (Part-IV)
44	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Moisture Content)	IS 2720 (Part-VIII)
45	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction Test (Dry Density)	IS 2720 (Part-VIII)
46	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Moisture Content)	IS 2720 (Part-VII)
47	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction Test (Dry Density)	IS 2720 (Part-VII)
48	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
49	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
50	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part II)

SCOPE OF ACCREDITATION

Laboratory Name : RESEARCH LABORATORY, PWD (B&R), NABHA ROAD, PATIALA, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10647 **Page No** 4 of 5
Validity 27/05/2022 to 26/05/2024 **Last Amended on** -

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	MECHANICAL- BUILDINGS MATERIALS	Bituminous Pavement	Deflection Measurement of Pavement using Benkleman Beam Deflection test (Field Testing)	IRC 81
2	MECHANICAL- BUILDINGS MATERIALS	Bituminous Pavement	Deflection Measurement of Pavement using falling weight deflectometer (Field Testing)	IRC 115
3	MECHANICAL- BUILDINGS MATERIALS	Bituminous Pavement	Measurement of Surface Roughness by Fifth Wheel Bump Integrator (Field Testing)	IRC SP 16
4	MECHANICAL- BUILDINGS MATERIALS	Sign Board	Coeffcient of Retro Reflection for Traffic Signage by Retro Reeflectometer	IRC 67
5	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Luminace for Thermoplastic Road Markings by Retro Reflectometer	IRC 35
6	MECHANICAL- BUILDINGS MATERIALS	Thermoplast	Road Marking Thickness by Thickness Gauge	IRC 35
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Cover Depth	ASTM E 3013
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Diameter of Reinforcement Bar	ASTM C 3013
9	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Half Cell potential Difference Test	IS 516 (Part 5/Sec 2), ASTM C 876
10	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer Test	IS 516 (Part 5 Sec 4)
11	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Spacing of Reinforcement Bar	ASTM C 3013

SCOPE OF ACCREDITATION

Laboratory Name : RESEARCH LABORATORY, PWD (B&R), NABHA ROAD, PATIALA, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-10647 **Page No** 5 of 5
Validity 27/05/2022 to 26/05/2024 **Last Amended on** -

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
12	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Ultrasonic Pulse Velocity Test	IS 516 (Part 5 Sec 1)