National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8573 **Page No** 1 of 7

Validity 12/07/2021 to 11/07/2023 **Last Amended on** 18/10/2021

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	Relative density	IS 9103
2	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Carbon	IS 228 : Part 1
3	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Chromium	IS 228 : Part 6
4	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Manganese	IS 228 : Part 2
5	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Nickel	IS 228 : Part 5
6	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Phosphorus	IS 228 : Part 3
7	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Silicon	IS 228 : Part 8
8	CHEMICAL- METALS & ALLOYS	Carbon & Alloy Steel	Sulphur	IS 228 : Part 9
9	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 : Part 23
10	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 : Part 40
11	CHEMICAL- WATER	Drinking Water	Calcium hardness	IS 3025 : Part 40
12	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 : Part 32
13	CHEMICAL- WATER	Drinking Water	Chromium	IS 3025 : Part 52
14	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 : Part 4
15	CHEMICAL- WATER	Drinking Water	Copper	IS 3025 : Part 42
16	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 : Part 26
17	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 : Part 53
18	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 : Part 46
19	CHEMICAL- WATER	Drinking Water	Magnesium hardness	IS 3025 (Part 46)
20	CHEMICAL- WATER	Drinking Water	Manganese	IS 3025 : Part 59
21	CHEMICAL- WATER	Drinking Water	Mineral oil	IS 3025 (Part 39) Clause 6
22	CHEMICAL- WATER	Drinking Water	Nickel	IS 3025 : Part 54
23	CHEMICAL- WATER	Drinking Water	Nitrate- Nitrogen (as NO3)	IS 3025 : Part 34
24	CHEMICAL- WATER	Drinking Water	Nitrogen Nitrite (as NO2)	IS 3025 : Part 34
25	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 : Part 5

SCOPE OF ACCREDITATION

Laboratory Name : HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8573 **Page No** 2 of 7

Validity 12/07/2021 to 11/07/2023 **Last Amended on** 18/10/2021

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
26	CHEMICAL- WATER	Drinking Water	pH	IS 3025 : Part 11
27	CHEMICAL- WATER	Drinking Water	Phosphorous	IS 3025 : Part 31
28	CHEMICAL- WATER	Drinking Water	Silica	IS 3025 : Part 35
29	CHEMICAL- WATER	Drinking Water	Temprature	IS 3025 : Part 9
30	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 : Part 16
31	CHEMICAL- WATER	Drinking Water	Total hardness (as CaCO3)	IS 3025 : Part 21
32	CHEMICAL- WATER	Drinking Water	Total Solids	IS 3025 : Part 15
33	CHEMICAL- WATER	Drinking Water	Total Suspended Solid	IS 3025 : Part 17
34	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 : Part 10
35	CHEMICAL- WATER	Water for construction purpose	Acidity (Neutralize 100ml Sample of water using 0.02 N H2SO4)	IS 3025 : Part 22
36	CHEMICAL- WATER	Water for construction purpose	Alkalinity (Neutralize 100ml sample of water using 0.02 N NaOH)	IS 3025 : Part 23
37	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 : Part 32
38	CHEMICAL- WATER	Water for construction purpose	Inorganic solids	IS 3025 : Part 18
39	CHEMICAL- WATER	Water for construction purpose	Organic solids	IS 3025 : Part 18
40	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 : Part 11
41	CHEMICAL- WATER	Water for construction purpose	Suspended solids	IS 3025 : Part 17
42	MECHANICAL- BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part-1):
43	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 (Part-3)
44	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part-2)
45	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077
46	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077
47	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (width)	IS 1077
48	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part-6)

SCOPE OF ACCREDITATION

Laboratory Name : HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8573 **Page No** 3 of 7

Validity 12/07/2021 to 11/07/2023 **Last Amended on** 18/10/2021

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
49	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part-11)
50	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part-5)
51	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Blaine's Air Permeability	IS 4031 (Part-2):
52	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part-5)
53	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Autoclave Method	IS 4031 (Part-3) Clause 6.0
54	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-chatelier Method	IS 4031 (Part-3) Clause 5.0
55	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Standard Consistency	IS 4031 (Part-4)
56	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete tile	Resistance to Wear	IS 1237, ANNEX G (Clause 12.7)
57	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete tile	Water Absorption	IS 1237, ANNEX E (Clause 12.5)
58	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete tile	Wet Transverse Strength	IS 1237, ANNEX F (Clause 12.6)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material and organic Impurities	IS 2386 (Part-2),
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part-4) Clause 3.0
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value by Los Angeles Machine	IS 2386 (Part-4) Clause 5.3
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3) Clause 3.0
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4) Clause 2.0
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1) Clause 5.0
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1) Clause 4.0
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4) Clause 4.0
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS2386 (Part-1) Clause 2.0

SCOPE OF ACCREDITATION

Laboratory Name : HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8573 **Page No** 4 of 7

Validity 12/07/2021 to 11/07/2023 **Last Amended on** 18/10/2021

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
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Magnesium Sulphate (MgSO4)	IS 2386 (Part-5),
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Sodium Sulphate (Na2SO4)	IS 2386 (Part-5)
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3):
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3) Clause 2.0
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3) Clause 3.0
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Fine Aggregate	IS 2386 (Part-3) Clause 4.0
74	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material and organic Impurities	IS 2386 (Part-2),
75	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1) Clause 2.0
76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Vol-1 (Clause 3.1.3.2)
77	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Magnesium Sulphate (MgSO4)	IS 2386 (Part-5)
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Sodium Sulphate (Na2SO4)	IS 2386 (Part-5),
79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3) Clause 2.0
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Surface Moisture	IS 2386 (Part-3) Clause 5.0
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3) Clause 2.0
82	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199
83	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516
84	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Core Compressive Strength	IS 516
85	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516
86	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Bend Test	IS 1599

SCOPE OF ACCREDITATION

Laboratory Name :	HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8573	**Page No**	5 of 7
Validity	12/07/2021 to 11/07/2023	**Last Amended on**	18/10/2021

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
87	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Elongation	IS 1608 (Part-1)
88	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Mass per meter	IS 1786 (Reaffirmed Year : 2018)
89	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Re-Bend	IS 1786 , (RA-2013)
90	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Tensile Strength	IS 1608 (Part-1)
91	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Yield Stress	IS 1608 (Part-1)
92	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS 15658 , ANNEX E (Clause 7.3)
93	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658, ANNEX D (Clause 7.3)
94	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Flexural Strength	IS 15658 ANNEX G (Clause 7.3)
95	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658, ANNEX C (Clause 7.3)
96	MECHANICAL- BUILDINGS MATERIALS	PRECAST CONCRETE KERBS	Transverse Strength	IS:5758 ANNEX C (Clauses 9.3)
97	MECHANICAL- BUILDINGS MATERIALS	PRECAST CONCRETE KERBS	Water Absorption	IS:5758 , ANNEX D (Clauses 9.4)
98	MECHANICAL- BUILDINGS MATERIALS	Vitrified /Ceramic Tiles	Breaking Strength	IS 13630 : Part 6
99	MECHANICAL- BUILDINGS MATERIALS	Vitrified /Ceramic Tiles	Modulus of Rupture	IS 13630 : Part 6
100	MECHANICAL- BUILDINGS MATERIALS	Vitrified /Ceramic Tiles	Water Absorption	IS 13630 : Part 2
101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel	Bend Test	IS 1599
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel	Elongation	IS 1608 (Part-1)
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel	Tensile Strength	IS 1608 (Part-1)

SCOPE OF ACCREDITATION

Laboratory Name : HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8573 **Page No** 6 of 7

Validity 12/07/2021 to 11/07/2023 **Last Amended on** 18/10/2021

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
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High strength deformed steel	Yield Stress	IS 1608 (Part-1)
105	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
106	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
107	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16)
108	MECHANICAL- SOIL AND ROCK	Soil	Free Swelling Index	IS 2720 (Part-40)
109	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part-4)
110	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5) Clause 3.0
111	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density by Heavy Compaction	IS 2720 (Part-8)
112	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density by Light Compaction	IS 2720 (Part 7)
113	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content by Heavy Compaction	IS 2720 (Part-8)
114	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content by Light Compaction	IS 2720 (Part 7)
115	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
116	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part-6)
117	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test / UU (find Angle of friction)	IS 2720 (Part-11)
118	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test / UU (find Cohesion)	IS 2720 (Part-11)
119	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part-10)
120	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part-2)

SCOPE OF ACCREDITATION

Laboratory Name :	HICON TESTING LAB, CONSULTANCY & RESEARCH CENTRE, H.NO.-61 NARAYAN NAGAR, HOSHANGABAD ROAD, BHOPAL, MADHYA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8573	**Page No**	7 of 7
Validity	12/07/2021 to 11/07/2023	**Last Amended on**	18/10/2021

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
Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core Cutter	IS 2720 (Part-29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Sand Replacement	IS 2720 (Part-28)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer Test	IS 13311 : Part 2
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 : Part 5 : Sec 1