



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



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 / 6

Validity 12/07/2019 to 11/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	MECHANICAL-BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part-1): 1992 RA: 2016	4 N/mm ² to 25 N/mm ²
2	MECHANICAL-BUILDINGS MATERIALS	Brick	Efflorescence	IS 3495 (Part-3): 1992 RA 2016	Qualitative(Visual)
3	MECHANICAL-BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part-2): 1992 RA 2016	1 % to 20 %
4	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part-6): 1988 RA: 2014	10 N/mm ² to 80 N/mm ²
5	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part-11): 1988 RA 2019	1 g/cc to 4 g/cc
6	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part-5): 1988 RA 2019	100 minutes to 600 minutes
7	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Blaine's Air Permeability	IS 4031 (Part-2): 1999 RA : 2013	200 m ² /kg to 500 m ² /kg
8	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness by Dry Sieving	IS 4031 (Part-1): 1996 RA 2016	0.1 % to 10 %
9	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part-5): 1988 RA 2019	30 minutes to 300 minutes



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10	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Autoclave Method	IS 4031 (Part-3): 1988 RA 2019; Clause 6.0	0.01 % to 1.0 %
11	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-chatelier Method	IS 4031 (Part-3): 1988 RA 2019; Clause 5.0	0.1 mm to 10 mm
12	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Standard Consistency	IS 4031 (Part-4): 1988 RA 2019	10 % to 45 %
13	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part-4): 1963 RA 2016; Clause 3.0	5 T to 50 T
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value by Los Angeles Machine	IS 2386 (Part-4): 1963 RA 2016; Clause 5.3	5 % to 60 %
15	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3): 1963 RA 2016; Clause 3.0	1 kg/L to 3 kg/L
16	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4): 1963 RA 2016; Clause 2.0	5 % to 60 %
17	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1): 1963 RA 2016; Clause 5.0	5 % to 60 %
18	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1): 1963; RA 2016; Clause 4.0	5 % to 60 %
19	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4): 1963 RA 2016; Clause 4.0	5 % to 60 %



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20	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS2386 (Part-1): 1963 RA 2016;; Clause 2.0	upto to 100 % (4.75 to 100 mm)
21	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3): 1963 RA : 2016	1.0 to 3.00
22	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3): 1963 RA 2016; Clause 2.0	0.1 % to 10 %
23	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3): 1963 RA 2016; Clause 3.0	1 kg/L to 3 kg/L
24	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulking of Fine Aggregate	IS 2386 (Part-3): 1963 RA 2016; Clause 4.0	1 % to 30 %
25	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1): 1963 RA 2016; Clause 2.0	upto to 100 % (0.075 to 10 mm)
26	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3): 1963 RA 2016; Clause 2.0	1 to 3.0
27	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Surface Moisture	IS 2386 (Part-3): 1963 RA 2016; Clause 5.0	0.2 % to 20 %
28	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3): 1963 RA 2016; Clause 2.0	0.2 % to 10 %
29	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump	IS 1199: 1959 RA 2013	20 mm to 300 mm



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30	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 1959 RA : 2013	5 N/mm ² to 80 N/mm ²
31	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516: 1959 RA : 2013	1 N/mm ² to 10 N/mm ²
32	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658: 2006 RA : 2017	10 N/mm ² to 80 N/mm ²
33	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658: 2006 RA 2017; Annex C	1 % to 20 %
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars	Elongation	IS 1608 (Part-1): 2018	0.5 % to 50 %
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars	Mass per meter	IS 1786 , (RA-2013): 2008	0.01 kg/m to 20 kg/m
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars	Tensile Strength	IS 1608 (Part-1): 2018	100 N/mm ² to 700 N/mm ²
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars	Yield Stress	IS 1608 (Part-1): 2018	100 N/mm ² to 700 N/mm ²
38	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143: 1979 RA : 2016	10 N/mm ² to 500 N/mm ²



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39	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16): 1987 RA 2016	3 % to 60 %
40	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core Cutter	IS 2720 (Part-29): 1975 RA 2015	1.5 g/cc to 2.24 g/cc
41	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Sand Replacement	IS 2720 (Part-28): 1974 RA 2015	1.4 g/cc to 2.21 g/cc
42	MECHANICAL- SOIL AND ROCK	Soil	Free Swelling Index	IS 2720 (Part-40): 1977 RA 2016	5 % to 70 %
43	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part-4): 1985 RA 2015	upto to 100 % (4.75 to 0.075 mm)
44	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5): 1985 RA 2015; Clause 3.0	10 % to 80 %
45	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density by Heavy Compaction	IS 2720 (Part-8): 1983 RA 2015	1.5 g/cc to 2.5 g/cc
46	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density by Light Compaction	IS 2720 (Part 7): 1980 RA 2016	1.0 g/cc to 2.5 g/cc
47	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content by Heavy Compaction	IS 2720 (Part-8): 1983 RA 2015	1 % to 18 %
48	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content by Light Compaction	IS 2720 (Part 7): 1980 RA 2016	1 % to 18 %
49	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5): 1985 RA 2015	upto to 50 %
50	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part-6): 1972 RA 2016	1 % to 5 %
51	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test / UU (find Angle of friction)	IS 2720 (Part-11): 1993 RA 2016	20 degree to 40 degree



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52	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test / UU (find Cohesion)	IS 2720 (Part-11): 1993 RA : 2016	0 kg/cm ² to 4 kg/cm ²
53	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part-10): 1980 RA 2015	0.2 kg/cm ² to 4.0 kg/cm ²
54	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part-2): 1973 RA 2015	1 % to 50 %