



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name BHUMI RESEARCH CENTER (CIVIL ENGINEERING TESTING LABORATORY),
PLOT NO. 164, VIBRANT BUSINESS PARK, PHASE 1, GIDC, VAPI, VALSAD,
GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5521 Page No. : 1 / 6

Validity 24/04/2019 to 23/04/2021 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	Bricks	Compressive Strength	IS 3495 (Part 1): 1992	1 N/mm ² to 30 N/mm ²
2	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077: 1992	1000 mm to 2000 mm
3	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077: 1992	3000 mm to 6000 mm
4	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077: 1992	1500 mm to 3000 mm
5	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3): 1992	Qualitative
6	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2): 1992	1 % to 40 %
7	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6): 1988	1 N/mm ² to 80 N/mm ²
8	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4): 1988	23 % to 40 %
9	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988	60 min to 600 mn



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10	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blaine Air Permeability	IS 4031 (Part 2): 1999	200 m ² /kg to 400 m ² /kg
11	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5): 1988	10 min to 300 min
12	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier	IS 4031 (Part 03): 1988	0.00 mm to 10.00 mm
13	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS 2386 (Part 4): 1963	1 % to 50 %
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3): 1963	1200 kg/m ³ to 2500 kg/m ³
15	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4): 1963	1 % to 50 %
16	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1): 1963	1 % to 40 %
17	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1): 1963	1 % to 40 %
18	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4): 1963	1 % to 50 %
19	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963	0 % to 100 %



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20	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3): 1963	1.20 to 3.00
21	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3): 1963	0.1 % to 10 %
22	MECHANICAL-BUILDINGS MATERIALS	Concrete	Slump Cone Test	IS 1199: 1959	0 mm to 250 mm
23	MECHANICAL-BUILDINGS MATERIALS	Core	Compressive Strength	IS 516: 1959	1 N/mm ² to 80 N/mm ²
24	MECHANICAL-BUILDINGS MATERIALS	Cube	Compressive Strength	IS 516 : 1959	1 N/mm ² to 80 N/mm ²
25	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3): 1963	1200 kg/m ³ to 3000 kg/m ³
26	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Finer than 75 micron	IS 2386 (Part 1): 1963	0 % to 50 %
27	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1): 1963	0 % to 100 %
28	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3): 1963	1.10 to 3.00
29	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3): 1963	0.1 % to 10.0 %



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30	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annex D): 2006	1 N/mm ² to 65 N/mm ²
31	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Cross Sectional Area	IS 15658 (Annex C): 2006	10 cm ² to 400 cm ²
32	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex C): 2006	0.50 % to 15 %
33	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Bars	Bend Test	IS 1599: 2012	Qualitative(Mandrel size:R-8, R-10, R-12, R-16,R-20,R-25, R32,R-40, R-50, R-70, R-100, R-120, R-140)
34	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Bars	Elongation	IS 1608 (Part 01): 2018	5 % to 40 %
35	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Bars	Rebend Test	IS 1786: 2008	Qualitative(Mandrel size:R-8, R-10, R-12, R-16,R-20,R-25, R32,R-40, R-50, R-70, R-100, R-120, R-140)
36	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Bars	Ultimate Tensile Strength	IS 1608 (Part 01): 2018	50 N/mm ² to 900 N/mm ²
37	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Bars	Weight/meter	IS 1786: 2008	0.1 kg/m to 8.0 kg/m
38	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Bars	Yield Stress	IS 1608 (Part 01): 2018	50 N/mm ² to 900 N/mm ²



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39	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16): 1987	1 % to 80 %
40	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (C)	IS 2720 (Part 13): 1986	0.00 kg/cm ² to 2.00 kg/cm ²
41	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Ø)	IS 2720 (Part 13): 1986	0 deg to 40 deg
42	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977	0 % to 200 %
43	MECHANICAL- SOIL AND ROCK	Soil	Grain Size	IS 2720 (Part 4): 1985	0 % to 100 %
44	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8): 1983	1.10 g/cc to 3.00 g/cc
45	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8): 1983	5 % to 25 %
46	MECHANICAL- SOIL AND ROCK	Soil	Hydrometer Analysis	IS 2720 (Part 4): 1985	0 % to 100 %
47	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 7): 1980	1.10 g/cc to 3.00 g/cc
48	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7): 1980	5 % to 25 %
49	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5): 1985	0 % to 80 %
50	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2): 1973	0 % to 50 %
51	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (part 5): 1985	0 % to 50 %
52	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6): 1972	1 % to 30 %



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53	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3): 1980	2.00 to 2.90
54	MECHANICAL- SOIL AND ROCK	Soil	Swell Pressure	IS 2720 (Part 41): 1977	0.00 kg/cm ² to 3.00 kg/cm ²
55	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (UU) (without pore pressure) - C	IS 2720 (Part 11): 1993	0.00 kg/cm ² to 2.00 kg/cm ²
56	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Shear Test (UU) (without pore pressure) - Ø	IS 2720 (Part 11): 1993	0 deg to 40 deg
57	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression (without pore pressure)	IS 2720 (Part 10): 1991	0.05 kg/cm ² to 4.0 kg/cm ²