



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ASP MATERIAL TESTING LABORATORY, RAMNAGAR PATIYA, DHANSURA, (SABAR KANTHA), GUJARAT , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5545 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
<b>Permanent Facility</b>					
1	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031 (Part-1): 1996	0.1 % to 40 %
2	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 Part 2: 1978	100 poises to 8000 poises
3	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 1978	1 cm to 100 cm
4	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1206 Part 3: 1978	100 cst to 1000 cst
5	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Loss on heating	IS 1212: 1978	0.1 % to 100 %
6	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203: 1978	1 div to 400 div
7	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205: 1978	1 °C to 100 °C
8	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific gravity	IS 1202: 1978	0.99 to 1.102
9	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix / Core	Bitumen content	ASTM D 2172: 2017	0.1 % to 10 %



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10	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix / Core	Density of mix	ASTM D 2726: 2017	1.5 g/cc to 3.5 g/cc
11	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix / Core	Marshal Flow	ASTM D 6927: 2015	0.5 mm to 10 mm
12	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix / Core	Marshal Stability	ASTM D 6927: 2015	0.1 kN to 25 kN
13	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 (Part-1) : 1992	1 N/mm <sup>2</sup> to 65 N/mm <sup>2</sup>
14	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension – Height	IS 1077 : 1992	700 mm to 1600 mm
15	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension – Length	IS 1077 : 1992	2000 mm to 5000 mm
16	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension – Width	IS 1077: 1992	1000 mm to 3000 mm
17	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part-3) : 1992	Qualitative
18	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 (Part-2) : 1992	1 % to 30 %
19	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part – 11): 1988	2 g/cc to 4 g/cc



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20	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 (Part-6): 1988	10 N/mm <sup>2</sup> to 70 N/mm <sup>2</sup>
21	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 Part 4: 1988	20 % to 40 %
22	MECHANICAL-BUILDINGS MATERIALS	Cement	Final setting time	IS 4031 Part 5: 1988	30 minute to 600 minute
23	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blaine air permeability	IS 4031 (Part-2): 1999	150 m <sup>2</sup> /kg to 600 m <sup>2</sup> /kg
24	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial setting time	IS 4031 Part 5: 1988	5 minute to 300 minute
25	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-chatelier methods	IS 4031 (Part - 3): 1988	0.01 mm to 10 mm
26	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 (Part-4) : 1963	1 % to 50 %
27	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1):: 1963	1.0 % to 50.00 %
28	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1) : 1963	1.0 % to 50.0 %
29	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part-4) : 1963	1 % to 50 %



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30	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Los angeles abrasion value	IS 2386 (Part-4) : 1963	1.0 % to 50 %
31	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis	IS 2386 (Part-1): 1963	1 % to 100 %
32	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part-3): 1963	2 to 4
33	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part-3): 1963	0.1 % to 10 %
34	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive strength	IS 516: 1959	5 N/mm2 to 80 N/mm2
35	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Materials finer than 75 micron	IS 2386 (Part-1): 1963	0.1 % to 15 %
36	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1): 1963	1 % to 100 %
37	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 (Part-3):: 1963	2 to 4
38	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Part-3): 1963	0.1 % to 10 %



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39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608 (Part-1): 2018	5 % to 50 %
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass per meter	IS 1786: 2008	1 kg/m to 10 kg/m
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608 (Part 1): 2018	20 kN to 1000 kN
42	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield stress	IS 1608 (Part 1): 2018	20 kN to 1000 kN
43	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16): 1985	1 % to 45 %
44	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part-4): 1985	1 % to 100 %
45	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction – MDD	IS 2720 (Part-8): 1983	1.4 g/cc to 2.8 g/cc
46	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction – OMC	IS 2720 (Part-8): 1983	10 % to 30 %
47	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - MDD	IS 2720 (Part-7): 1980	1.4 g/cc to 2.5 g/cc
48	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction – OMC	IS 2720 (Part-7): 1980	10 % to 30 %
49	MECHANICAL- SOIL AND ROCK	Soil	Liquid limit	IS 2720 (Part-5): 1985	2 % to 80 %



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50	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2): 1973	1 % to 30 %
51	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5): 1985	2 % to 60 %
52	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 (Part-3, Sec-1): 1980	1.5 to 3