



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name                      PRECISION TEST LAB & CONSULTANT, 31, NEER NAGAR, BICHOLI HAPSI,  
INDORE, MADHYA PRADESH , INDIA

Accreditation Standard              ISO/IEC 17025:2017

Certificate Number                    TC-7226                                      Page No. :                                      1 / 4

Validity                                      14/03/2019 to 13/03/2021              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	Aggregate (Coarse)	Crushing value	IS 2386 (Part 4): 1963	5.0 % to 50.0 %
2	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS:2386 (P 1): 1963	1 % to 40 %
3	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part 4): 1963	5.0 % to 50.0 %
4	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve analysis	IS:2386 (P 1) : 1963	4.75 mm to 80.0 mm
5	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part 3): 1963	1.5 to 3.5
6	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part 3): 1963	0.1 % to 5.0 %
7	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis	IS 2386 (Part 1): 1963	75 micron to 4.75 mm
8	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Silt Content	IS 2386 (Part 2): 1963	1.0 % to 10.0 %
9	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part 3): 1963	1.5 to 3.5



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10	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part 3): 1963	0.10 % to 5.0 %
11	MECHANICAL-BUILDINGS MATERIALS	Aggregate(Coarse)	Elongation Index	IS 2386 (Part 1): 1963	1 % to 40 %
12	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 1978	0 cm to 100 cm
13	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration Value	IS 1203: 1978	0.0 mm to 50.0 mm
14	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 1978	30 °C to 80 °C
15	MECHANICAL-BUILDINGS MATERIALS	Brick (clay/ Fly Ash)	Water Absorption	IS 3495 (Part 2): 1992	1.0 % to 40.0 %
16	MECHANICAL-BUILDINGS MATERIALS	Brick Clay/Fly Ash	Compressive Strength	IS 3495 (Part 1): 1992	5.0 N/mm <sup>2</sup> to 40.0 N/mm <sup>2</sup>
17	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6): 1988	2.0 N/mm <sup>2</sup> to 80.0 N/mm <sup>2</sup>
18	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4): 1988	20 % to 40 %
19	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988	100 minutes to 600 minutes



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20	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5): 1988	10 minutes to 400 minutes
21	MECHANICAL- BUILDINGS MATERIALS	Cement	LeChatlier Soundness	IS 4031 (Part 3): 1988	0.0 mm to 10.0 mm
22	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube/Core	Compressive Strength	IS 516: 1959	0.0 N/mm <sup>2</sup> to 2000 N/mm <sup>2</sup>
23	MECHANICAL- BUILDINGS MATERIALS	Concrete Pavers Blocks	Compressive Strength	IS 15658 : 2006	0.0 N/mm <sup>2</sup> to 2000 N/mm <sup>2</sup>
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Tensile Strength	IS 1786: 2008	0.0 mpa to 500 mpa
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Elongation %	IS 1786: 2008	5.0 % to 40.0 %
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Weight Per Meter	IS 1786: 2008	0.222 kg/m to 6.32 kg/m
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Yield Stress	IS 1786: 2008	0.0 mpa to 600 mpa
28	MECHANICAL- SOIL AND ROCK	Clays & Soil	Direct Shear Test	IS 2720 (Part 13): 1986	0.0 kg/cm <sup>2</sup> to 1.0 kg/cm <sup>2</sup>



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29	MECHANICAL- SOIL AND ROCK	Clays & Soil	Liquid Limit	IS 2720 (Part 5): 1985	20.0 % to 100.0 %
30	MECHANICAL- SOIL AND ROCK	Clays & Soil	Maximum Dry Density- Heavy Compaction	IS 2720 (Part 8): 1980	1.2 gm/cc to 2.50 gm/cc
31	MECHANICAL- SOIL AND ROCK	Clays & Soil	Optimum Moisture Content-Heavy Compaction	IS 2720 (Part 8): 1983	6.0 % to 30.0 %
32	MECHANICAL- SOIL AND ROCK	Clays & Soils	California Bearing Ratio	IS 2720 (Part 16): 1987	1.0 % to 50.0 %
33	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear Test UU	IS 2720 (Part 13): 1986	1.0 ° to 50.0 °
34	MECHANICAL- SOIL AND ROCK	Clays & Soils	Natural Moisture Content	IS 2720 (Part 2): 1973	1.0 % to 40.0 %
35	MECHANICAL- SOIL AND ROCK	Clays & Soils	Plastic Limit	IS 2720 (Part 5): 1985	NP % to 50.0 %
36	MECHANICAL- SOIL AND ROCK	Clays & Soils	Tri-Axial Shear Test- Unconsolidated Undrained	IS 2720 (Part 11): 1993	0.0 kg/cm <sup>2</sup> to 4.0 kg/cm <sup>2</sup>
37	MECHANICAL- SOIL AND ROCK	Clays & Soils	Triaxial Shear Test- Unconsolidated Undrained	IS 2720 (Part 11): 1993	0.0 ° to 20.0 °
38	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030: 1991	0.1 % to 50.0 %
39	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 13030: 1991	1.50 % to 3.50 %
40	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS 13030: 1991	0.1 % to 50.0 %
41	MECHANICAL- SOIL AND ROCK	Stones	Unconfined Compressive strength	IS 9143: 1979	0.0 kg/cm <sup>2</sup> to 2000 kg/cm <sup>2</sup>