



(A Constituent Board of Quality Council of India)



Laboratory Name	MICROTECH TESTING & RESEARCH LABORATORY, AGASOD ROAD, BINA- ETAWA, SAGAR, MADHYA PRADESH , INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	TC-6045	Page No. :	1 / 10	
Validity	21/07/2019 to 20/07/2021	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	Aggregate	Water Absorption	IS 2386 (Part 3) RA 2016: 1963	0.1 % to 10 %	
2	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Binder content	ASTM D 2172: 2002	1 % to 10 %	
3	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Ductility	IS 1208 RA 2014: 1978	1 cm to 100 cm	
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Elastic Recovery	IS 15462: 2019	1 % to 100 %	
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Flash Point	IS 1448 (Part 69): 2013	25 °C to 400 °C	
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Flow Value	MS-2/MORTH: 2013	1 mm to 10 mm	
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Marshall Stability	MS-2/MORTH: 2013	2 kN to 20 kN	
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Penetration	IS 1203 RA 2013: 1978	10 mm to 150 mm	
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Softening Point	IS 1205 RA 2014: 1978	30 °C to 150 °C	





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10	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Specific Gravity	IS 1202 RA 2013: 1978	0.50 to 1.50
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Stripping Value	IS 6241 RA 2017: 1971	Qualitative
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen for Paving & Industrial	Thermal Stability	IS 14982 RA 2012: 2001	Qualitative
13	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1) RA 2016: 1992	3.0 N/mm ² to 35 N/mm ²
14	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077 RA 2016: 1992	1000 to 2500
15	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077 RA 2016: 1992	3500 mm to 5000 mm
16	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077 RA 2016: 1992	1500 mm to 2500 mm
17	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3) RA 2016: 1992	Qualitative
18	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2) RA 2016: 1992	5 % to 50 %
19	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Compressive strength	IS 4031 (Part 6) RA 2019: 1988	5 N/mm ² to 80 N/mm ²





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20	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Consistency	IS 4031 (Part 4) RA 2019: 1988	20 % to 40 %
21	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Density/Specific Gravity	IS 4031 (Part 11) RA 2019: 1988	1.5 g/cc to 3.5 g/cc
22	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Final setting time	IS 4031 (Part 5) RA 2019: 1988	100 Min to 600 Min
23	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Fineness Blain's Permeability	IS 4031 (Part 2) RA 2019: 1999	100 m²/Kg to 600 m²/Kg
24	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Initial setting time	IS 4031 (Part 5) RA 2019: 1988	10 Min to 400 Min
25	MECHANICAL- BUILDINGS MATERIALS	Cement (PPC/OPC)	Soundness by Le –Chatelier Mould	IS 4031 (Part 3) RA 2019: 1988	0.5 mm to 10 mm
26	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cores	Compressive Strength	IS 516: 2013	5 N/mm ² to 70 N/mm ²
27	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Pavement	Sieve Analysis for Pavement Quality Concrete	MORTH Rev. 5; Sec. 600 (CL No. – 602.2.6.4): 2013	75 micron to 31.5 mm
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	% Finer than 75 micron	IS 2386 (Part 1) RA 2016: 1963	0.0 % to 20 %
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part 4) RA 2016: 1963	5 Tonns to 50 Tonns





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30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3) RA 2016: 1963	1 Kg/l to 3 Kg/l
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4) RA 2016: 1963	5 % to 50 %
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1) RA 2016: 1963	5 % to 60 %
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1) RA 2016: 1963	5 % to 60 %
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4) RA 2016: 1963	5 % to 60 %
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4) RA 2016: 1963	5 % to 60 %
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1) RA 2016: 1963	4.75 mm to 63 mm
37	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2SO4	IS 2386 (Part 5) RA 2016: 1963	0.01 % to 20 %
38	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness MgSO4	IS 2386 (Part 5) RA 2016: 1963	0.01 % to 20 %
39	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3) RA 2016: 1963	1.0 to 3.0





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40	MECHANICAL- BUILDINGS MATERIALS	Concrete Mix Proportion	Slump Test	IS 1199 RA 2013: 1959	00 to 150
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	% Finer than 75 micron	IS 2386 (Part 1) RA 2016: 1963	00 % to 20 %
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3) RA 2016: 1963	1 Kg/l to 3 Kg/l
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Sand	IS 2386 (Part 3) RA 2016: 1963	1 to 30
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1) RA 2016: 1963	150 micron to 4.75 mm
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD - Vol. 1: 2009	00 to 20
46	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO4	IS 2386 (Part 5) RA 2016: 1963	0.5 % to 100 %
47	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2SO4	IS 2386 (Part 5) RA 2016: 1963	0.5 % to 100 %
48	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3) RA 2016: 1963	1 to 3
49	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3) RA 2016: 1963	1 % to 30 %





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50	MECHANICAL- BUILDINGS MATERIALS	Fly Ash (Pozzolana)	Fineness- Blaine's Permeability	IS 1727 RA 2013: 1967	100 m²/Kg to 500 m²/Kg
51	MECHANICAL- BUILDINGS MATERIALS	Fly Ash (Pozzolana)	Particles retained on 45µ	IS 1727 RA 2013: 1967	5 % to 50 %
52	MECHANICAL- BUILDINGS MATERIALS	Fly Ash (Pozzolana)	Specific Gravity/Density	IS 1727 RA 2013: 1967	1.0 g/cc to 3.0 g/cc
53	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Length)	IS 15658 RA 2017: 2006	1 mm to 500 mm
54	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658 RA 2017: 2006	20 N/mm² to 100 N/mm²
55	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Height)	IS 15658 RA 2017: 2006	1 mm to 500 mm
56	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Width)	IS 15658 RA 2017: 2006	1 mm to 500 mm
57	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Visual Inspection	IS 15658 RA 2017: 2006	Qualitative
58	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658 RA 2017: 2006	0.1 % to 10 %





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59	MECHANICAL- BUILDINGS MATERIALS	Sub Base (Non- Bituminous) GSB,WMM, WBM, Stone Metal	Sieve Analysis	IS 2386 (Part 1) RA 2016 /MORTH: 1963	75 micron to 75 mm
60	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend	IS 1786: 2008 RA: 2013	Qualitative(Mandrel dia. 20, 24, 30, 32, 36, 39, 50, 52, 64, 80, 100, 113, 125, 140, 160 and 196 mm.)
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608-1: 2018	5 % to 50 %
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass /Meter	IS 1786 RA 2013: 2008	0.1 kg/m to 8.0 kg/m
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Rebend	IS 1786 RA 2013: 2008	Qualitative(Mandrel dia. 20, 24, 30, 32, 36, 39, 50, 52, 64, 80, 100, 113, 125, 140, 160 and 196 mm.)
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608-1: 2018	20 kN to 600 kN load
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608-1: 2018	20 kN to 600 kN load





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66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Unmachined Bar, Flat)	Elongation	IS 1608-1: 2018	5 % to 50 %
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Unmachined Bar, Flat)	Ultimate Tensile Strength	IS 1608-1: 2018	20 kN to 600 kN load
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Unmachined Bar, Flat)	Yield Stress	IS 1608-1: 2018	20 kN to 600 kN load
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding in steel	Tensile Strength	IS 3600-3: 2018	20 kN to 600 kN load
70	MECHANICAL- SOIL AND ROCK	Natural Rock	Density	IS 13030 RA 2016: 1991	1.0 g/cc to 3 g/cc
71	MECHANICAL- SOIL AND ROCK	Natural Rock	Un Confined Compressive Strength (UCS)	IS 9143 RA 2016: 1979	10 kg/cm2 to 2000 kg/cm2
72	MECHANICAL- SOIL AND ROCK	Natural Rock	Water content	IS 13030 RA 2016: 1991	0.1 % to 10 %
73	MECHANICAL- SOIL AND ROCK	Soil	FDD by core Cutter Method	IS 2720 (Part 29) RA 2015: 1975	1.1 g/cc to 3 g/cc
74	MECHANICAL- SOIL AND ROCK	Soil	FDD by Sand Replacement Method	IS 2720 (Part 28) RA 2015: 1974	1.1 g/cc to 3 g/cc
75	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8) RA 2015: 1983	1.1 g/cc to 3 g/cc





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76	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8) RA 2015: 1983	1 % to 20 %
77	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS 2720 (Part 7) RA 2016: 1980	1.1 g/cc to 3 g/cc
78	MECHANICAL- SOIL AND ROCK	Soil	Light compaction (OMC)	IS 2720 (Part 7) RA 2016: 1980	5 % to 20 %
79	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2) RA 2015: 1973	0.5 % to 40 %
80	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3) section 1 RA 2016: 1980	2 to 3
81	MECHANICAL- SOIL AND ROCK	Soils	Atterberg Limits (LL)	IS 2720 (Part 5) RA 2015: 1985	5 % to 80 %
82	MECHANICAL- SOIL AND ROCK	Soils	California Bearing Ratio	IS 2720 (Part 16) RA 2016: 1987	1 % to 100 %
83	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear (Angle)	IS 2720 (Part 13) RA 2016: 1986	5 Degree to 50 Degree
84	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear Cohesion Value	IS 2720 (Part 13) RA 2016: 1986	0.0 Kg/cm2 to 2.50 Kg/cm2
85	MECHANICAL- SOIL AND ROCK	Soils	Free Swell Index	IS 2720 (Part 40) RA 2016: 1970	0 % to 60 %
86	MECHANICAL- SOIL AND ROCK	Soils	Grain Size Analysis	IS 2720 (Part 4) RA 2015: 1985	75 Micron to 40 mm
87	MECHANICAL- SOIL AND ROCK	Soils	Shrinkage Limit	IS 2720 (Part 6) RA 2016: 1972	1.0 % to 50 %
88	MECHANICAL- SOIL AND ROCK	Sub Base (Non- Bituminous) GSB,WMM, WBM, Stone Metal	CBR	IS 2720 (Part 16) RA 2016: 1987	1.0 % to 100 %





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89	MECHANICAL- SOIL AND ROCK	Sub Base (Non- Bituminous) GSB,WMM, WBM, Stone Metal	Heavy compaction (MDD)	IS 2720 (Part 8) RA 2015/MORTH: 1983	1.1 g/cc to 3.0 g/cc
90	MECHANICAL- SOIL AND ROCK	Sub Base (Non- Bituminous) GSB,WMM, WBM, Stone Metal	Liquid Limit	IS 2720 (Part 5) RA 2015: 1985	5.0 % to 50 %
91	MECHANICAL- SOIL AND ROCK	Sub Base (Non- Bituminous) GSB,WMM, WBM, Stone Metal	Optimum Moisture Content (OMC)	IS 2720 (Part 8) RA 2015: 1983	1.0 % to 20 %
92	MECHANICAL- SOIL AND ROCK	Sub Base (Non- Bituminous) GSB,WMM, WBM, Stone Metal	Plastic Limit	IS 2720 (Part 5) RA 2015: 1985	5.0 % to 50 %