



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name AIRSH CONSULTANCY (TESTING LABORATORY), 15-16, KRUNAL SHOPPING CENTER, VEGA CROSSING, DABHOI, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5650 Page No. : 1 / 5

Validity 26/07/2019 to 25/07/2021 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 (Coarse)	Crushing Value	IS:2386 (P 4) -1963, RA 2011: 2011	1 % to 60 %
2	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Elongation Index	IS:2386 (P 1) -1963, RA 2011: 2011	2 % to 40 %
3	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS:2386 (P 1) -1963, RA 2011: 2011	2 % to 40 %
4	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS:2386 (P 4) -1963, RA 2011: 2011	2.5 % to 50 %
5	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Los Angeles Abrasion Value	IS:2386 (P 4) -1963, RA 2011: 2011	1 % to 60 %
6	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve analysis	IS:2386 (P 1) -1963, RA 2011: 2011	75 µm to 80 mm
7	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS:2386 (P 3) -1963, RA 2011: 2011	2.5 to 3.5
8	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Sieve analysis	IS:2386 (P 1) -1963, RA 2011: 2011	75 µm to 80 mm
9	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS:2386 (P 3) -1963, RA 2011: 2011	2.5 to 3.5



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10	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS: 1208 – 1978, RA 2009: 2009	75 cm to 100 cm
11	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS: 1203 – 1978 -RA 2009: 2009	50 Division (1/10th mm) to 100 Division (1/10th mm)
12	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS: 1205 – 1978 RA: 2009	40 °C to 55 °C
13	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS: 1202 – 1978, RA 2009: 2009	0.99 to 1.102
14	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Compressive Strength	IS:3495 -1992: 2007	10 kg/cm2 to 75 kg/cm2
15	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Dimension (Length)	IS : 1077 – 1992: 2011	4520 mm to 4680 mm
16	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Dimension (Height)	IS : 1077 – 1992: 2011	1360 mm to 1440 mm
17	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Dimension Width	IS : 1077 – 1992: 2011	2160 mm to 2240 mm
18	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Water Absorption	IS:3495 (P 2) -1992: 2007	2 to 25 %
19	MECHANICAL-BUILDINGS MATERIALS	Cement	Comprehensive Strength	IS:4031 (P 6)-1988: 2009	10 N/mm2 to 80 N/mm2



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20	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS:4031 (P 6)-1988: 2009	10 N/mm ² to 80 N/mm ²
21	MECHANICAL- BUILDINGS MATERIALS	cement	Consistency	IS:4031 (P 4)-1988: 2011	25 % to 40 %
22	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS:4031 (P 5)-1988: 2009	30 min to 600 min
23	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS:4031 (P 5)-1988,: 2009	30 min to 250 min
24	MECHANICAL- BUILDINGS MATERIALS	Coarse	Water absorption	IS 2386(PART 3): 1963	1 % to 10 %
25	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength	IS:516-1959: 2008	8 N/mm ² to 80 N/mm ²
26	MECHANICAL- BUILDINGS MATERIALS	Fine	water absorption	is 2386part 3: 2011	1 % to 10 %
27	MECHANICAL- SOIL AND ROCK	SOIL	Heavy Compaction (MDD)	IS: 2720 (P 8)-1986, RA 2011: 2011	1.4 gm/cc to 2.6 gm/cc
28	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS: 2720 (P 8)-1986, RA 2011: 2011	5 % to 40 %
29	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD:)	IS: 2720 (P 7)-1986, RA 2011: 2011	1 gm/cc to 2.1 gm/cc
30	MECHANICAL- SOIL AND ROCK	SOIL	Light Compaction (OMC)	IS: 2720 (P 7)-1986, RA 2011: 2011	5 % to 40 %



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31	MECHANICAL- SOIL AND ROCK	SOIL	Liquid Limit	IS: 2720 (P 5)-1985, RA 2011: 2011	25 % to 120 %
32	MECHANICAL- SOIL AND ROCK	SOIL	Shrinkage Limit	IS: 2720 (P 4)-1980, RA 2011: 2011	7.0 % to 25 %
33	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (P 3)-1980, RA 2011: 2011	2.4 to 3.0



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Site Facility					
1	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Dimension (Length)	IS : 1077 – 1992: 2011	4520 mm to 4680 mm
2	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Dimension (Height)	IS : 1077 – 1992: 2011	1360 mm to 1440 mm
3	MECHANICAL-BUILDINGS MATERIALS	BrickClay/ Fly Ash Bricks	Dimension Width	IS : 1077 – 1992: 2011	2160 mm to 2240 mm