National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	SUNTECH TESTING & CONSULTANCY, BIHARIBAG, ABU HIGHWAY ROAD, PALANPUR, GUJARAT , INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5902	Page No. :	1 / 6
Validity	30/06/2019 to 29/06/2021	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	Bitumen	Ductility	IS 1208:1978, RA: 2014	1 cm to 100 cm
2	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203:1978, RA: 2014	1 div. to 400 div.
3	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205:1978, RA : 2014	10 °C to 80 °C
4	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202:1978, RA: 2014	0.9 to 1.2
5	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 (Part–1):1992 RA: 2016	2 N/mm2 to 30 N/mm2
6	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions - Height	IS 1077:1992 RA: 2016	500 mm to 2000 mm
7	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions - Length	IS 1077:1992 RA: 2016	2000 mm to 5000 mm
8	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions - Width	IS 1077:1992 RA: 2016	1000 mm to 2500 mm
9	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part–3):1992 RA: 2016	Qualitative

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Certificate Number	TC-5902	Page No. :	2 / 6
Validity	30/06/2019 to 29/06/2021	Last Amended on	-

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10	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 (Part–2):1992 RA: 2016	1.0 % to 50 %
11	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 (Part–6):1988, RA: 2014	12 N/mm2 to 80 N/mm2
12	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part–4) : 1988, RA: 2014	20 % to 40 %
13	MECHANICAL-BUILDINGS MATERIALS	Cement	Final setting time	IS 4031 (Part–5):1988, RA: 2014	30 minute to 600 minute
14	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by blaine air permeability	IS 4031 (Part–2):1999, RA: 2013	150 m2/kg to 600 m2/kg
15	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial setting time	IS 4031 (Part–5) : 1988, RA: 2014	5 minute to 300 minute
16	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le–chatelier methods	IS 4031 (Part–3):1988, RA : 2014	0.01 mm to 10 mm
17	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion value (by Los angeles)	IS 2386 (Part–4):1963, RA : 2016	1.0 % to 70.0 %
18	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part–1):1963 Cl. 04, RA : 2016	1.0 % to 70 %
19	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part–1) :1963, RA : 2016	1.0 % to 70.0 %

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Certificate Number	TC-5902	Page No. :	3 / 6
Validity	30/06/2019 to 29/06/2021	Last Amended on	-

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20	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part–4) : 1963, RA : 2016	1 % to 50 %
21	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis	IS 2386 (Part–1) : 1963, (RA : 2016	0 % to 100 %
22	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part–3) : 1963, RA: 2016	2.0 to 4.0
23	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part–3):1963, Cl. no.02 , RA : 2016	0.1 % to 8.0 %
24	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive strength of Concrete Cube	IS 516:1959 RA: 2013	10 N/mm2 to 80 N/mm2
25	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate (Sand)	% Finer than 75 micron	IS 2386 (Part–1) : 1963, RA: 2016	0.01 % to 30.0 %
26	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate (Sand)	Sieve Analysis	IS 2386 (Part–1) : 1963, RA: 2016	0 % to 100 %
27	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate (Sand)	Specific gravity	IS 2386 (Part–3) : 1963, RA: 2016	2.0 to 4.0
28	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate (Sand)	Water Absorption	IS 2386 (Part–3) : 1963, RA: 2016	0.1 % to 3.0 %
29	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199:1959 RA: 2013	5 mm to 250 mm

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Certificate Number	TC-5902	Page No. :	4 / 6
Validity	30/06/2019 to 29/06/2021	Last Amended on	-

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30	MECHANICAL-BUILDINGS MATERIALS	Pavement	Deflection using Benkelman Beam Deflection	IRC 81 1997: 1997	0 mm to 10 mm
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend	IS 1599 -2012: RA:2017	Qualitative(Qualitative (Mandrel Dia. 24, 30, 32, 36, 40, 48, 60, 64, 80, 100 and 125 mm))
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608 (Part - 1) : 2018	5.0 % to 80 %
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part - 1): 2018	100 N/mm2 to 1400 N/mm2
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608-Part1: 2018	100 N/mm2 to 1200 N/mm2
35	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part–16):1987 (RA: 2016	1 % to 70 %
36	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Cohesion	IS 2720 (Part–13):1986, (RA: 2016	0 kg/cm2 to 2.0 kg/cm2
37	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear F	IS 2720 (Part–13):1986, RA: 2016	0 ° to 50 °
38	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part–40):1977, RA: 2016	0 % to 400 %

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Certificate Number	TC-5902	Page No. :	5 / 6
Validity	30/06/2019 to 29/06/2021	Last Amended on	-

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39	MECHANICAL- SOIL AND ROCK	Soil	Grain size analysis	IS 2720 (Part–4):1985, RA : 2015	0 % to 100 %
40	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction MDD	IS 2720 (Part–8):1983 (RA: 2015	1.2 g/cc to 3.00 g/cc
41	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction OMC	IS 2720 (Part–8):1983 (RA: 2015	0.1 % to 30.0 %
42	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction MDD	IS 2720 (Part–7):1980 (RA: 2011	1.2 g/cc to 3.00 g/cc
43	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction OMC	IS 2720 (Part–7):1980 (RA: 2011	5 % to 30 %
44	MECHANICAL- SOIL AND ROCK	Soil	Liquid limit & Plastic Limit	IS 2720 (Part–5):1985, (RA : 2015	5 % to 150 %
45	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part–6):1972, (RA : 2016	5 % to 20 %
46	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 (Part–3, Sec–1):1980, (RA: 2016	1.5 to 3.0

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Certificate Number	TC-5902	Page No. :	6 / 6
Validity	30/06/2019 to 29/06/2021	Last Amended on	-

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Site Facility					
1	MECHANICAL- SOIL AND ROCK	Soil	Field Moisture Content	IS 2720 (Part 2):1973, RA: 2015	1 % to 50 %
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Core cutter Method	IS 2720 (Part 29): 1975, (RA: 2015	1.2 g/cc to 2.0 g/cc