National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	SPAN MATERIAL TESTING & CONSULTANCY SERVICES LIMITED, PLOT NO. 35-36, PALANPUR- DEESA HIGHWAY, PALANPUR, BANASKANTHA, GUJARAT , INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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	CHEMICAL- BUILDING MATERIAL	Cement	Alumina	IS 4032 : 2014	1.0 % to 15.0 %
2	CHEMICAL- BUILDING MATERIAL	Cement	Calcium Oxide	IS 4032 : 2014	20 % to 70 %
3	CHEMICAL- BUILDING MATERIAL	Cement	Ferric Oxide	IS 4032 : 2014	0.5 % to 10 %
4	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	IS 4032 : 2014	0.5 % to 35 %
5	CHEMICAL- BUILDING MATERIAL	Cement	K2O	IS 4032: 2014	0.01 % to 1 %
6	CHEMICAL- BUILDING MATERIAL	Cement	Loss On Ignition	IS 4032 : 2014	0.1 % to 10 %
7	CHEMICAL- BUILDING MATERIAL	Cement	Magnesium Oxide	IS 4032 : 2014	0.05 % to 10 %
8	CHEMICAL- BUILDING MATERIAL	Cement	Na2O	is 4032: 2014	0.01 % to 1 %
9	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS 4032 : 2014	15 % to 35 %
10	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydride	IS 4032 : 2014	0.1 % to 5 %
11	CHEMICAL- WATER	Construction Water	Acidity	IS 3025 (Part-22): 2014	0.5 mg/l to 500 mg/l
12	CHEMICAL- WATER	Construction Water	Alkalinity	IS 3025 (Part-23): 2014	0.5 mg/l to 5000 mg/l
13	CHEMICAL- WATER	Construction Water	Chlorides	IS 3025 (Part-32): 2014	10 mg/l to 5000 mg/l
14	CHEMICAL- WATER	Construction Water	Inorganic (Fixed) Residue	IS 3025 (Part-18): 2017	1 mg/l to 10000 mg/l
15	CHEMICAL- WATER	Construction Water	Organic (Volatile) Residue	IS 3025 (Part-18): 2017	1 mg/l to 10000 mg/l

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16	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part-11): 2017	3 to 11
17	CHEMICAL- WATER	Construction Water	Sulphates	IS 3025 (Part-24): 2014	10 mg/l to 1000 mg/l
18	CHEMICAL- WATER	Construction Water	Suspended Matter	IS 3025 (Part-18): 2017	10 mg/l to 5000 mg/l
19	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	IS 3025 (Part-16): 2017	5 mg/l to 15000 mg/l
20	CHEMICAL- WATER	Construction Water	Total Hardness	IS 3025 (Part-21): 2014	10 mg/l to 10000 mg/l
21	MECHANICAL-BUILDINGS MATERIALS	Autoclave Aerated Block	Compressive Strength	IS 6441 (Part-5): 2017	1 Kg/cm2 to 90 Kg/cm2
22	MECHANICAL-BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension (Height)	IS 2185 (Part-3) : 2015	90 mm to 260 mm
23	MECHANICAL-BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension (Length)	IS 2185 (Part-3) : 2015	390 mm to 800 mm
24	MECHANICAL-BUILDINGS MATERIALS	Autoclave Aerated Block	Dimension (Width)	IS 2185 (Part-3) : 2015	190 mm to 310 mm
25	MECHANICAL-BUILDINGS MATERIALS	Autoclave Aerated Block	Dry Density	IS 6441(Part -1): 2017	200 kg/m³ to 1200 kg/m³
26	MECHANICAL-BUILDINGS MATERIALS	Autoclave Aerated Block	Moisture Content	IS 6441(Part -1): 2017	1 % to 20 %
27	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206: 2009	100 Poises to 8000 Poises
28	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 2009	1 cm to 100 cm

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29	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1206: 2009	100 cSt to 1000 cSt
30	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Loss On Heating	IS 1212: 2014	0.1 % to 100.0 %
31	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203: 2009	1 1/10 mm to 400 1/10 mm
32	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 2009	5 deg. c to 100 deg. c
33	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202: 2009	0.9 to 1.10
34	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix/Core	Bitumen Content	ASTM D 2172: 2017	0.1 % to 10.0 %
35	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix/Core	Density of Mix	ASTM D 2726: 2017	1.50 g/cc to 3.50 g/cc
36	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix/Core	Marshal Flow	ASTM D 6927: 2015	0.5 mm to 10 mm
37	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix/Core	Marshal Stability	ASTM D 6927: 2015	0.1 kN to 25 kN
38	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495, Part-1: 2011	1 kg/cm2 to 100 kg/cm2

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39	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Height)	IS 1077: 1992	1 mm to 5000 mm
40	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077: 1992	1 mm to 5000 mm
41	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077: 1992	1 mm to 5000 mm
42	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescene	IS 3495, Part-3: 2016	Qualitative
43	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495, Part-2: 2011	1.0 % to 30.0 %
44	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031, Part-6: 2014	10 N/mm2 to 80 N/mm2
45	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031, Part-4: 2013	20 % to 40 %
46	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031, Part-11: 2014	2 g/cc to 4 g/cc
47	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031, Part-5: 2013	30 minute to 600 minute
48	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by blaine air permeability	IS 4031, Part-2: 2013	150 m2/kg to 600 m2/kg

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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
49	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031, Part-1, Cl.5: 2005	0.1 % to 40 %
50	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031, Part-5: 2013	5 minute to 300 minute
51	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-chatelier Methods	IS 4031, Part-3, Cl.5: 2014	0.01 mm to 10 mm
52	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386, Part-4: 2016	5 Ton to 70 Ton
53	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value (By Los Angeles)	IS 2386, Part-4: 2011	1.00 % to 70.00 %
54	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386, Part-3: 2016	1 kg/l to 4 kg/l
55	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386, Part-4: 2016	5 % to 60 %
56	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386, Part-1, Cl.05: 2011	1.00 % to 70.00 %
57	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386, Part-1, Cl.04: 2011	1.00 % to 70.00 %
58	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386, Part-4: 2011	1.00 % to 50.00 %

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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
59	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis(80mm, 63mm, 40mm, 20mm, 16mm, 12.5mm,10mm, 4.75mm, 2.36mm)	IS 2386, Part-1: 2011	0.00 % to 100.0 %
60	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386, Part-5: 2016	0.1 % to 25 %
61	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386, Part-3: 2011	1.00 to 4.00
62	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Stripping value	IS 6241: 2017	75 % to 100 %
63	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386, Part-3, Cl-02: 2011	0.1 % to 10.0 %
64	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3): 2011	1 kg/l to 4 kg/l
65	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 microns	IS 2386, Part-1: 2011	0 % to 20 %
66	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(10mm, 4.75mm, 2.36mm, 1.18mm, 0.600mm,0.300mm, 0.150mm)	IS 2386, Part-1: 2011	0 % to 100 %
67	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386, Part-3: 2011	1.0 to 4.0

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68	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386, Part-3: 2011	0.1 % to 10 %
69	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Density	IS 4031, Part-11: 2014	2 g/cc to 4 g/cc
70	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron	IS 1727: 2013	5 % to 50 %
71	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199: 2008	1 mm to 300 mm
72	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Weight Per Cubic Meter	IS 1199: 2008	1500 kg/m3 to 3000 kg/m3
73	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 2004	1 N/mm2 to 18 N/mm2
74	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516: 2013	1 N/mm2 to 100 N/mm2
75	MECHANICAL-BUILDINGS MATERIALS	Pavement	Deflection using Benkelmen Beam Deflection (Field Test)	IRC 81: 1997	0.01 mm to 10 mm
76	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658: 2011	20 N/mm2 to 60 N/mm2
77	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658: 2017	1 % to 15 %

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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
78	MECHANICAL-BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Dimensions (Length)	IS 13630: 2017	100 mm to 1000 mm
79	MECHANICAL-BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Dimensions (Thickness)	IS 13630: 2017	5 mm to 15 mm
80	MECHANICAL-BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Dimensions (Width)	IS 13630: 2017	100 mm to 1000 mm
81	MECHANICAL-BUILDINGS MATERIALS	Pressed ceramic tiles/ Ceramic Tiles	Water absorption	IS 13630 : 2017	0.01 % to 25 %
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608: 2005	5 % to 50 %
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass per Meter	IS 1786: 2013	0.1 kg/m to 10 kg/m
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608: 2005	20 kN to 600 kN Load
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608: 2005	20 kN to 600 kN Load
86	MECHANICAL- SOIL AND ROCK	Natural building stone	True specific gravity	IS 1122: 2017	2.0 to 4.0

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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
87	MECHANICAL- SOIL AND ROCK	Natural building stone	Apparent specific gravity	IS 1124: 2013	2.20 to 3.15
88	MECHANICAL- SOIL AND ROCK	Natural building stone	Compressive strength	IS 1121 (Part-1): 2017	1.0 N/mm2 to 200 N/mm2
89	MECHANICAL- SOIL AND ROCK	Natural building stone	Water absorption	IS 1124: 2013	0.01 % to 10.0 %
90	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compression Strength	IS 9143: 2016	1.0 N/mm2 to 200 N/mm2
91	MECHANICAL- SOIL AND ROCK	Rock	Water content	IS 13030: 2007	0.01 % to 10.0 %
92	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Limit (Plasticity Index)	IS 2720, Part-5: 2010	5 % to 80 %
93	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720, Part-16: 2016	1 % to 90 %
94	MECHANICAL- SOIL AND ROCK	Soil	Consolidation (coefficient of compressibility)	IS 2720, Part-15: 2016	0.01 cm2/kg to 5.0 cm2/kg
95	MECHANICAL- SOIL AND ROCK	Soil	Consolidation (coefficient of consolidation)	IS 2720, Part-15: 2016	0.1 mm2/min to 50 mm2/min
96	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion)	IS 2720, Part-13: 2016	0 kg/cm2 to 2 kg/cm2
97	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Degree of Friction)	IS 2720, Part-13: 2016	15 deg to 40 deg
98	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720, Part-40: 2011	0 % to 100 %
99	MECHANICAL- SOIL AND ROCK	Soil	MDD (By Heavy Compaction)	IS 2720, Part-8: 2010	1.2 g/cc to 3.00 g/cc

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100	MECHANICAL- SOIL AND ROCK	Soil	MDD (By Light Compaction)	IS 2720, Part-7: 2011	1.2 g/cc to 3.00 g/cc
101	MECHANICAL- SOIL AND ROCK	Soil	OMC (By Heavy Compaction)	IS 2720, Part-8: 2010	5 % to 30 %
102	MECHANICAL- SOIL AND ROCK	Soil	OMC (By Light Compaction)	IS 2720, Part-7: 2011	5 % to 30 %
103	MECHANICAL- SOIL AND ROCK	Soil	Permeability (By Falling head method)	IS 2720 (Part–17): 2016	0.1 cm/s to 0.0000007 cm/s
104	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720, Part-6: 2016	5 % to 50 %
105	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis	IS 2720, PART-4: 2010	0.01 % to 100 %
106	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720, Part-3, Sec-1: 2011	2.0 to 3.00
107	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720, Part-41: 2016	0.01 kg/cm2 to 3.00 kg/cm2
108	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (Part–10): 2015	0.2 kg/cm2 to 4 kg/cm2
109	MECHANICAL- SOIL AND ROCK	Soil	Water Content/Moisture Content	IS 2720, Part-2: 2015	0.5 % to 30.0 %
110	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Half Cell Potential Test	ASTM C 876: 2015	-0.600 mV to 0.100 mV

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111	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Ultrasonic Pulse Velocity test	IS 13311 (Part 1) : 2008	1 km/s to 5 km/s

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Site Facility					
1	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density of Soil by Core Cutter Method	IS 2720, Part-29: 2015	1.2 g/cc to 2.5 g/cc
2	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density of Soil by Sand Replacement Method	IS 2720, Part-28(Sec.1&2): 2015	1.2 g/cc to 2.5 g/cc
3	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field Moisture Content	IS 2720, Part-2: 2015	1 % to 50 %
4	MECHANICAL- SOIL AND ROCK	Soil Field Test	Standard Penetration test	IS 2131: 2011	0 blows to 100 blows
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Pile Integrity Test	ASTM D 5882-07: 2016	Qualitative
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete structure	Rebound hammer test (10 R.N. to 100 R.N.)	IS 13311 (Part 2): 2008	20 MPa to 70 MPa