



National Accreditation Board for  
Testing and Calibration Laboratories  
(A Constituent Board of Quality Council of India)



## CERTIFICATE OF ACCREDITATION

### **DARSHAN CONSULTANCY CELL**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

HADALA, RAJKOT-MORBI HIGHWAY, NEAR WATER SUMP, RAJKOT, RAJKOT, GUJARAT, INDIA

in the field of

**TESTING**

Certificate Number: TC-6067

Issue Date: 01/08/2019

Valid Until: 31/07/2021

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

Laboratory Name DARSHAN CONSULTANCY CELL, HADALA, RAJKOT-MORBI HIGHWAY, NEAR  
WATER SUMP, RAJKOT, RAJKOT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 01/08/2019 to 31/07/2021 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	Bitumen	Absolute Viscosity	IS:1206 (Parr 2): 1978 RA 2014	500 poise to 5000 poise
2	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility at 25?	IS:1208: 1978 RA 2014	25 cm to 100 cm
3	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS:1206 (Parr 3): 1978 RA 2014	200 cSt to 450 cSt
4	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS:1203: 1978 RA 2013	50 (1/10th mm) to 100 (1/10th mm)
5	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS:1205: 1978 RA 2014	40 ? to 85 ?
6	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS:1202: 1978 RA 2014	0.99 to 1.102
7	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IRC SP 11: 1984 Appendix 5, Clause C	1 % to 10 %
8	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726: 2019	2 gm/cc to 3 gm/cc
9	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D6927: 2015	1 mm to 10 mm

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10	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927: 2015	0.1 kN to 25 kN
11	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Compressive Strength	IS:3495 (Part 1): 1992 RA 2016	3.5 N/mm2 to 10 N/mm2
12	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Dimension (Height)	IS:1077: 1992 RA 2016	1200 mm to 1500 mm
13	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Dimension (Length)	IS:1077: 1992 RA 2016	4200 mm to 4800 mm
14	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Dimension (Width)	IS:1077: 1992 RA 2016	2100 mm to 2400 mm
15	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Efflorescence	IS:3495 (Part 3): 1992 RA 2016	Qualitative
16	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Water Absorption	IS:3495 (Part 2): 1992 RA 2016	2 % to 25 %
17	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS:4031 (Part 6): 1988 RA 2019	10 N/mm2 to 80 N/mm2
18	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS:4031 (Part 4): 1988 RA 2019	25 % to 40 %
19	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS:4031 (Part 11): 1988 RA 2019	2.50 g/cc to 3.25 g/cc

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20	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS:4031 (Part 5): 1988 RA 2019	100 minutes to 600 minutes
21	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability	IS:4031 (Part 2): 1999 RA 2013	100 m2/kg to 500 m2/kg
22	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS:4031 (Part 1): 1996 RA 2016	1 % to 15 %
23	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS:4031 (Part 5): 1988 RA 2019	30 minutes to 250 minutes
24	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier's Method	IS:4031 (Part 3): 1988 RA 2019	0.1 mm to 10 mm
25	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Abrasion Value by Los Angeles Machine	IS:2386 (Part 4): 1063 RA 2016; Clause 5.3	1 % to 60 %
26	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS:2386 (Part 3): 1963 RA 2016; Clause 3.0	1.2 kg/L to 1.6 kg/L
27	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Crushing Value	IS:2386 (Part 4): 1963 RA 2016; Clause 2.0	1 % to 60 %
28	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Elongation Index	IS:2386 (Part 1): 1963 RA 2016; Clause 5.0	2 % to 40 %
29	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Flakiness Index	IS:2386 (Part 1): 1963 RA 2016; Clause 4.0	2 % to 40 %

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30	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Impact Value	IS:2386 (Part 4): 1963 RA 2016;; Clause 4.0	2.5 % to 50 %
31	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Sieve Analysis	IS:2386 (Part 1): 1963 RA 2016; Clause 2.0	upto to 100 % (4.75 to 125 mm)
32	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Specific Gravity	IS:2386 (Part 3): 1963 RA 2016; Clause 2.0	2.5 to 3.5
33	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Water Absorption	IS:2386 (Part 3): 1963 RA 2016; Clause 2.0	1 % to 10 %
34	MECHANICAL-BUILDINGS MATERIALS	Fine aggregate	Bulk Density	IS:2386 (Part 3): 1963 RA 2016; Clause 3.0	1.2 kg/L to 1.8 kg/L
35	MECHANICAL-BUILDINGS MATERIALS	Fine aggregate	Sieve Analysis	IS:2386 (Part 1): 1963 RA 2016; Clause 2.0	upto to 100 % (0.075 to 10 mm)
36	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS:2386 (Part 3): 1963 RA 2016; Clause 2.0	2.5 to 3.5
37	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS:2386 (Part 3): 1963 RA 2016; Clause 2.0	1 % to 10 %
38	MECHANICAL-BUILDINGS MATERIALS	Flexible Pavement	Bankelman Beam Deflection	IRC:81: 1997	0.1 mm to 25 mm
39	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump	IS:1199: 1959 RA 2013	20 mm to 250 mm

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40	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Cube Compressive Strength	IS:516: 1959 RA 2013	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
41	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS:516: 1959 RA 2013	1 N/mm <sup>2</sup> to 15 N/mm <sup>2</sup>
42	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Bend	IS:1599: 2012 RA 2017	Qualitative(Mandrel Diameter 24mm, 30mm, 32mm, 36mm, 40mm, 48mm, 64mm, 66mm, 80mm, 100mm, 125mm, 128mm, 160mm)
43	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Elongation	IS:1608 (Part 1): 2018	10 % to 40 %
44	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Mass per meter	IS:1786: 2008 RA 2013	0.1 Kg/m to 9.5 Kg/m
45	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Rebend	IS:1786: 2008 RA 2013	Qualitative(Mandrel diameter 40mm, 50mm, 84mm, 112mm, 140mm, 175mm, 224mm)
46	MECHANICAL-BUILDINGS MATERIALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Tensile Strength	IS:1608 (Part 1): 2018	100 N/mm <sup>2</sup> to 800 N/mm <sup>2</sup>

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47	MECHANICAL- BUILDINGS MATERIALS	High Strength Deformed Steel Bars for Concrete Reinforcement	Yield Stress	IS:1608 (Part 1): 2018	100 N/mm <sup>2</sup> to 800 N/mm <sup>2</sup>
48	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS:2720 (Part 16): 1987 RA 2016	1 % to 80 %
49	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion	IS:2720 (Part 13): 1986 RA 2016	0.01 Kg/cm <sup>2</sup> to 0.4 Kg/cm <sup>2</sup>
50	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle of Shearing Resistance)	IS:2720 (Part 13): 1986 RA 2016	5 degree to 50 degree
51	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS:2720 (Part 40): 1977 RA 2016	10 % to 500 %
52	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS:2720 (Part 4): 1985 RA 2015	upto to 100 % (0.075 to 19 mm)
53	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS:2720 (Part 8): 1983 RA 2015	1.4 gm/cc to 2.6 gm/cc
54	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS:2720 (Part 8): 1983 RA 2015	3 % to 40 %
55	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS:2720 (Part 7): 1980 RA 2016	1.2 gm/cc to 2.5 gm/cc
56	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS:2720 (Part 7): 1980 RA 2016	5 % to 40 %
57	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Cone Penetrometer	IS:2720 (Part 5): 1985 RA 2015; Clause 4.0	10 % to 300 %
58	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS:2720 (Part 5): 1985 RA 2015	upto to 50 %

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59	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS:2720 (Part 3 / Sec 1): 1980 RA 2016	2.4 to 3.0