



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name                    NANJI KALABHAI PATEL & CO. (NKPC), BORING HOUSE, POTRIWALI GALI,  
JAMNAGAR, GUJARAT, INDIA

Accreditation Standard            ISO/IEC 17025:2005

Certificate Number                TC-8142(in lieu of T-3192      Page No. :                                    1 / 4  
and T-3193)

Validity                                 14/11/2018 to 13/11/2020      Last Amended on                         26/11/2018

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
<b>Permanent Facility</b>					
1	CHEMICAL- BUILDING MATERIAL	WATER (FOR CONSTRUCTION PURPOSE)	pH Value	IS:3025 (PART-11): 1983	1.0 to 14.0
2	CHEMICAL- BUILDING MATERIAL	WATER (FOR CONSTRUCTION PURPOSE)	Chloride (Cl)	IS:3025 (PART-32): 1988	100 mg/l to 50000 mg/l
3	CHEMICAL- BUILDING MATERIAL	WATER (FOR CONSTRUCTION PURPOSE)	Sulphate (as SO <sub>3</sub> )	IS:3025 (PART-24): 1986	50 mg/l to 1000 mg/l
4	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS:1206 (PART-2): 1978	600 poise to 3000 poise
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS:1208 : 1978	10 cm to 100 cm
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS:1206 (PART-3): 1978	100 cst to 600 cst
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS:1203: 1978	10 mm to 100 mm
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS:1205: 1978	10 °C to 70 °C
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow	ASTM-D6927-06: 2006	1 mm to 10 mm



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10	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Stability	ASTM-D6927-06: 2006	2 kN to 20 kN
11	MECHANICAL-BUILDINGS MATERIALS	Brick	Dimension	IS:1077: 1997	2000 mm to 5000 mm
12	MECHANICAL-BUILDINGS MATERIALS	Brick	Efflorescence	IS:3495(PART-3): 1992	Qualitative
13	MECHANICAL-BUILDINGS MATERIALS	Brick	Water Absorption	IS:3495 (PART-2): 1992	1 % to 25 %
14	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS:4031:(PART-6): 1988	10 N/mm <sup>2</sup> to 70 N/mm <sup>2</sup>
15	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS:4031 (PART-5): 1988	100 Min to 600 Min
16	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness By Blain Permeability	IS:4031 (PART-2): 1999	100 m <sup>2</sup> /Kg to 400 m <sup>2</sup> /Kg
17	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS:4031 (PART-5): 1988	10 Min to 300 Min
18	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by le chatelier	IS:4031 (PART-3): 1988	0.5 mm to 10 mm
19	MECHANICAL-BUILDINGS MATERIALS	Cement	Standard Consistency	IS:4031 (PART-4): 1988	15 % to 40 %



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20	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Values	IS:2386 (PART-4): 1963	10 kN to 500 kN
21	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS:2386 (PART-1): 1963	5 % to 60 %
22	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS:2386 (PART-1): 1963	5 % to 60 %
23	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Gradation (Sieve Analysis)	IS:2386 (PART-1): 1963	100 mm to 4.75 mm
24	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS:2386 (PART-4): 1963	5 % to 50 %
25	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS:2386 (PART-3): 1963	1.5 to 3.0
26	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS:2386 (PART-3): 1963	0.5 % to 10 %
27	MECHANICAL-BUILDINGS MATERIALS	Concrete Fresh	Slump	IS:1199: 2005	1 mm to 300 mm
28	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate (SAND)	Water Absorption	IS:2386 (PART-3): 1963	0.5 % to 15 %
29	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate(SAND)	Gradation (Sieve Analysis)	IS:2386 (PART-1): 1963	10 mm to 0.075 mm



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30	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates (Sand)	Specific Gravity	IS:2386 (PART-3): 1963	1.5 to 3.0
31	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS:516 : 1959	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
32	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS:2720 (PART-16): 1987	5 % to 80 %
33	MECHANICAL- SOIL AND ROCK	Soil	Gradation (Grain size Analysis)	IS:2720 (PART-4): 1985	40 mm to 0.075 mm
34	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction	IS:2720(PART-8): 1983	1.5 g/cc to 3 g/cc
35	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction	IS:2720 (PART-7): 1980	1 g/cc to 3 g/cc
36	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS:2720 (PART-5): 1985	5 % to 80 %
37	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS:2720(PART-5): 1985	5 % to 50 %