National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NANJI KALABHAI PATEL & CO. (NKPC), BORING HOUSE, SORATHIYAWADI CHOWK, RAJKOT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7763 **Page No** 1 of 5

Validity 22/08/2021 to 21/08/2023 **Last Amended on** 18/10/2021

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Aggregate	Alkali Aggregate Reactivity	IS 2386 (Part 7)
2	CHEMICAL- BUILDING MATERIAL	Construction Water	Chloride (cl)	IS 3025 (Part 32)
3	CHEMICAL- BUILDING MATERIAL	Construction water	pH Value	IS 3025 (Part 11)
4	CHEMICAL- BUILDING MATERIAL	Construction Water	Sulphate (as SO3)	IS 3025 (Part 24)
5	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Compressive Strength	IS 4031 (Part-6)
6	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Fineness (Blaine Air Permeability)	IS 4031 (Part–2)
7	MECHANICAL- BUILDINGS MATERIALS	(OPC & PPC)	Soundness (Le-Chatelier Methods)	IS 4031 (Part-3)
8	MECHANICAL- BUILDINGS MATERIALS	(OPC / PPC)	Standard Consistency	IS 4031 (Part–4)
9	MECHANICAL- BUILDINGS MATERIALS	(OPC / PPC)	Density	IS 4031 (Part-11)
10	MECHANICAL- BUILDINGS MATERIALS	(OPC / PPC)	Final Setting Time	IS 4031 (Part–5)
11	MECHANICAL- BUILDINGS MATERIALS	(OPC / PPC)	Fineness by dry sieving	IS 4031 (Part-1)
12	MECHANICAL- BUILDINGS MATERIALS	(OPC / PPC)	Initial Setting Time	IS 4031 (Part–5)
13	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse Aggrergate)	Material finer than 75 micron	IS 2386 (Part-1)
14	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	10% Fines Value	IS 2386 (Part–4)
15	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Elongation Index	IS 2386 (Part–1)
16	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Impact Value	IS 2386 (Part–4)
17	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Specific Gravity	IS 2386 (Part–3)
18	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Water Absorption	IS 2386 (Part–3)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7763	**Page No**	2 of 5
Validity	22/08/2021 to 21/08/2023	**Last Amended on**	18/10/2021

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19	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine Aggregate)	Specific Gravity	IS 2386 (Part–3)
20	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine Aggregate)	Water Absorption	IS 2386 (Part–3)
21	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Flakiness Index	IS 2386 (Part–1)
22	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Sieve Analysis (0.090, 8.3, 9.5, 10, 12.5, 13.5, 16, 19, 20, 25, 31.5, 40, 37.5, 50, 63, 75, 80, 100 mm)	IS 2386 (Part–1)
23	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Abrasion Value	IS 2386 (Part-4)
24	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Crushing Value	IS 2386 (part-4)
25	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Loose Bulk Density	IS 2386 (Part-3)
26	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Rodded Bulk Density	IS 2386 (Part-3)
27	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Soundness by MgSO4	IS 2386 (Part-5)
28	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Soundness by Na2SO4	IS 2386 (part-5)
29	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Coarse Aggregate)	Striping Value	IS 6241
30	MECHANICAL- BUILDINGS MATERIALS	Aggregates (Fine Aggregate)	Sieve Analysis (0.075, 0.150, 0.300, 0.600, 1.18, 2.36, 4.75, 10 mm)	IS 2386 (Part–1)
31	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part 2)
32	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
33	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS 1206 (Part 3)
34	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on heating	IS 1212
35	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7763	**Page No**	3 of 5
Validity	22/08/2021 to 21/08/2023	**Last Amended on**	18/10/2021

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37	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
38	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IS 13826 (Part-7)
39	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726
40	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow	ASTM D6927
41	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927
42	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Compressive Strength	IS 3495 (Part-1)
43	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Dimension - HEIGHT	IS 1077
44	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Dimension - WIDTH	IS 1077
45	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Dimension-LENGTH	IS 1077
46	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Efflorescence	IS: 3495 (Part-3)
47	MECHANICAL- BUILDINGS MATERIALS	Bricks (Burnt clay)	Water Absorption	IS: 3495 (Part-2)
48	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199
49	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength (Cube)	IS 516
50	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Paver Block)	Compressive Strength	IS 15658 (Annex-C)
51	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Paver Block)	Water Adsorption	IS 15658 (Annex-D)
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Steel	% Elongation	IS 1608 (Part 1)
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Bend Test	IS 1599
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Re–Bend test	IS 1786

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7763 **Page No** 4 of 5

Validity 22/08/2021 to 21/08/2023 **Last Amended on** 18/10/2021

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55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Ultimate Tensile Strength	IS 1608 (Part 1)
56	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Yield stress	IS 1608 (Part 1)
57	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030
58	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
59	MECHANICAL- SOIL AND ROCK	Rock	Uni-axial Compressive Strength	IS 9143
60	MECHANICAL- SOIL AND ROCK	Rock	Water Adsorption	IS 13030
61	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial test (cohesion)	IS 2720(Part-11)
62	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16)
63	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Undrained)	IS 2720 (Part-15)
64	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle of internal friction)	IS 2720 (Part-13)
65	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Cohesion)	IS 2720 (Part-13)
66	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)
67	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - MDD	IS 2720 (Part-8)
68	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - OMC	IS 2720 (Part 8)
69	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - MDD	IS 2720 (Part 7)
70	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - OMC	IS 2720 (Part 7)
71	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit (Cone Penetration)	IS 2720 (Part 5)
72	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part-2)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7763 **Page No** 5 of 5

Validity 22/08/2021 to 21/08/2023 **Last Amended on** 18/10/2021

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73	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Distribution (Wet & Dry Analysis)	IS 2720 (Part 4)
74	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
75	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part-6)
76	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis - Hydrometer Analysis	IS 2720 (Part-4)
77	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3/Sec.1)
78	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part-41)
79	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Test (Angle of internal friction)	IS 2720(Part-11)
80	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part-10)
81	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer Test	IS 516 part-5 sec-4
82	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity Test	IS 516 part-5 sec.1