National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NANJI KALABHAI PATEL & COMPANY, KHEDUT SAHAKARI GIN COMPOUND, RAILWAY STATION LOTARWA ROAD, VYARA, TAPI, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9868 **Page No** 1 of 4

Validity 17/09/2021 to 16/09/2023 **Last Amended on** -

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	Coarse Aggregate & Fine Aggregate	Alkali Aggregate Reactivity	IS 2386 (PART 7)
2	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (PART 32)
3	CHEMICAL- WATER	Construction Water	pH	IS 3025 (PART 11)
4	CHEMICAL- WATER	Construction Water	Sulphate (as SO3)	IS 3025 (PART 24)
5	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (PART 2)
6	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Binder Content	ASTM D 2172/IRC SP 11
7	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
8	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	1206 (PART 3)
9	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212
10	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
11	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
12	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
13	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Flow	ASTM D 6927
14	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Stability	ASTM D 6927
15	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Building Brick & Burnt Clay/Fly Ash Building Brick	Compressive Strength	IS 3495 (PART 1)
16	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Building Brick & Burnt Clay/Fly Ash Building Brick	Dimensions:Height	IS 1077
17	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Building Brick & Burnt Clay/Fly Ash Building Brick	Dimensions:Length	IS 1077
18	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Building Brick & Burnt Clay/Fly Ash Building Brick	Dimensions:Width	IS 1077
19	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Building Brick & Burnt Clay/Fly Ash Building Brick	Efflorescence	IS 3495 (PART 3)

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20	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay/Building Brick & Burnt Clay/Fly Ash Building Brick	Water Absorption	IS 3495 (PART 2)
21	MECHANICAL- BUILDINGS MATERIALS	CC MIX	Slump Test	IS 1199
22	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (PART 6)
23	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (PART 5)
24	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine Air Permeability	IS 4031 (PART 2)
25	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness-Le Chatelier	IS 4031 (PART 3)
26	MECHANICAL- BUILDINGS MATERIALS	Cement OPC,PPC	Initial Setting Time	IS 4031 (PART 5)
27	MECHANICAL- BUILDINGS MATERIALS	Cement OPC,PPC	Standard Consistency	IS 4031 (PART 4)
28	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (PART 4)
29	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (PART 1)
30	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (PART 1)
31	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Gradation-Sieve Analysis	IS 2386 (PART 1)
32	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (PART 4)
33	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSO4	IS 2386 (PART 5)
34	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by NA2SO4	IS 2386 (PART 5)
35	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (PART 3)
36	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (PART 3)
37	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube/Core	Compressive Strength	IS 516
38	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Gradation - Sieve Analysis	IS 2386 (PART 1)

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39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (PART 3)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (PART 3)
41	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimensions:Height	IS 13757
42	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimensions:Length	IS 13757
43	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Dimensions:Width	IS 13757
44	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Compressive Strength	IS 15658
45	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Water Absorption	IS 15658
46	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (PART 16)
47	MECHANICAL- SOIL AND ROCK	Soil	Gradation (Grain Size Analysis)	IS 2720 (PART 4)
48	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density)	IS 2720 (PART 8)
49	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS 2720 (PART 8)
50	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Maximum Dry Density)	IS 2720 (PART 7)
51	MECHANICAL- SOIL AND ROCK	Soil	Light compaction (Optimum Moisture Content)	IS 2720 (PART 7)
52	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (PART 5)
53	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (PART 2)
54	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (PART 5)
55	MECHANICAL- SOIL AND ROCK	Soil	Shear Strength By Direct Shear (Cohesion-C)	IS 2720 (PART 13)
56	MECHANICAL- SOIL AND ROCK	Soil	Shear Strength By Direct Shear Test (Angle of Repose-Phi)	IS 2720 (PART 13)
57	MECHANICAL- SOIL AND ROCK	Soil	Shear Strength By Tri-Axial Test (Angle Of Repose-Phi)	IS 2720 (PART 11)

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58	MECHANICAL- SOIL AND ROCK	Soil	Shear Strength By Tri-Axial Test (Cohesion-C)	IS 2720 (PART 11)
59	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (PART 3 SEC 1 & 2)
60	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression Strength	IS 2720 (PART 10)