National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NIRVAN TESTING AND RESEARCH LABORATORY PVT. LTD., MAURYA VIHAR COLONY, PLOT NO. 459, B. M. P. 16, PATNA, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9450 **Page No** 1 of 3

Validity 20/04/2021 to 19/04/2023 **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	MECHANICAL- BUILDINGS MATERIALS	Brick (Clay or Fly Ash)	Compressive Strength	IS 3495 (Part-1)
2	MECHANICAL- BUILDINGS MATERIALS	Brick (Clay or Fly Ash)	Dimension (Length)	IS 1077, IS 12894
3	MECHANICAL- BUILDINGS MATERIALS	Brick (Clay or Fly Ash)	Dimension (Thickness)	IS 1077, IS 12894
4	MECHANICAL- BUILDINGS MATERIALS	Brick (Clay or Fly Ash)	Dimension (Width)	IS 1077, IS 12894
5	MECHANICAL- BUILDINGS MATERIALS	Brick (Clay or Fly Ash)	Efflorescence	IS 3495 (Part-3)
6	MECHANICAL- BUILDINGS MATERIALS	Brick (Clay or Fly Ash)	Water Absorption	IS 3495 (Part-2)
7	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part-6)
8	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 (Part-4)
9	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part-11)
10	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Setting Time (Final)	IS 4031 (Part-5)
11	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Setting Time (Initial)	IS 4031 (Part-5)
12	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness (By Le-Chatelier)	IS 4031 (Part-3)
13	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part-4)

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19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Total Deleterious Material (Material finer than 75 µm, Clay & Lumps and Coal & Lignite)	IS 2386 (Part - 1 & 2)
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
23	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)
24	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part-2)
25	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1)
26	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
27	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Total Deleterious Material (Material finer than 75 µm, Clay & Lumps and Coal & Lignite)	IS 2386 (Part-1 & 2)
28	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
29	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516
30	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Compressive Strength	IS 15658
31	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Block for Paving (Paver Block/Interlocking Tiles)	Water Absorption	IS 15658
32	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16)
33	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Internal Friction, Phi Value)	IS 2720 (Part-13)
34	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion Intercept, C Value)	IS 2720 (Part-13)
35	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40)

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36	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve Size - 19mm, 4.75mm, 2.0mm, 425 micron, 75 micron)	IS 2720 (Part-4)
37	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density)	IS 2720 (Part-8)
38	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS 2720 (Part-8)
39	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5)
40	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part-2)
41	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
42	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3/Sec-1)