National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING AND CALIBRATION RESEARCH LABORATORY (A DIVISION OF ALPAS KNOWLEDGE SOCIETY), AKS UNIVERSITY CAMPUS, BLOCK C, SHERGANJ, PANNA ROAD, SATNA, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 21/12/2022 to 20/12/2024 **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	Cement (OPC and PPC)	Alumina (Al2O3)	IS 4032 (Clause 4.6.2)
2	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Chloride (Cl)	IS 4032
3	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Insoluble Residue	IS 4032
4	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Iron Oxide (Fe2O3)	IS 4032 (Clause 4.5.2)
5	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Lime (CaO)	IS 4032 (Clause 7.7.2)
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Loss on Ignition	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Magnesia (MgO)	IS 4032 (Clause 4.8.2)
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Silica (SiO2)	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC and PPC)	Sulphuric Anhydride (SO3)	IS 4032
10	CHEMICAL- ORES & MINERALS	Limestone	Chloride (Cl)	IS 1760 (Part 5/Clause 5)
11	CHEMICAL- ORES & MINERALS	Limestone	Lime (CaO)	IS 1760 (Part 3)
12	CHEMICAL- ORES & MINERALS	Limestone	Loss on Ignition	IS 1760 (Part 1)
13	CHEMICAL- ORES & MINERALS	Limestone	Magnesia (MgO)	IS 1760 (Part 3)
14	CHEMICAL- ORES & MINERALS	Limestone	Silica (SiO2)	IS 1760 (Part 2)
15	CHEMICAL- WATER	Water for Construction Purpose	Acidity (ml of 0. 02N NaOH Used to Neutralize the 100 ml of the Water Sample)	IS 3025 (Part 23)
16	CHEMICAL- WATER	Water for Construction Purpose	Alkalinity (ml of 0.02N H2SO4 Used to Neutralize the 100 ml of the Water Sample)	IS 3025 (Part 23)
17	CHEMICAL- WATER	Water for Construction Purpose	Chloride	IS 3025 (Part 32)
18	CHEMICAL- WATER	Water for Construction Purpose	Inorganic Solids	IS 3025 (Part 18)
19	CHEMICAL- WATER	Water for Construction Purpose	Organic Solids	IS 3025 (Part 18)

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20	CHEMICAL- WATER	Water for Construction Purpose	pH value	IS 3025 (Part 11)
21	CHEMICAL- WATER	Water for Construction Purpose	Sulphate	IS 3025 (Part 24/Section 1)
22	CHEMICAL- WATER	Water for Construction Purpose	Total Suspended Matter (Total Suspended Soilds)	IS 3025 (Part 17)
23	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks	Dimension (Length)	IS 13757
24	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks	Water Absorption	IS 3495 (Part 2)
25	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Compressive Strength	IS 3495 (Part 1)
26	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension (Height)	IS 1077
27	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension (Length)	IS 1077
28	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Dimension (Width)	IS 1077
29	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Efflorescence	IS 3495 (Part-3)
30	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Water Absorption	IS 3495 (Part-2)
31	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks	Compressive Strength	IS 3495 (Part 1)
32	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks	Dimension (Height)	IS 13757
33	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash Building Bricks	Dimension (Width)	IS 13757
34	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part 6)
35	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting Time	IS 4031 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blaine Air Permeability	IS 4031 (Part 2)
37	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part 5)
38	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Autoclave Expansion	IS 4031 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Le-Chatelier Method	IS 4031 (Part 3)

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40	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Standard Consistency	IS 4031 (Part 4)
41	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
42	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
43	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
44	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
45	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4)
46	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer than 75 µm	IS 2386 (Part 1)
47	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (2.36 mm to 80 mm)	IS 2386 (Part 1)
48	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
49	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
50	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 µm	IS 2386 (Part 1)
51	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (150 µm to 10mm)	IS 2386 (Part 8)
52	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content (Clay and Fine Silt & Fine Dust)	IS 2386 (Part 1)
53	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
54	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
55	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516 (Part 4)
56	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 (Part 1/Section 1)
57	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annex D)
58	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Length)	IS 15658 (Annex B)

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59	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS 15658 (Annex B)
60	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Width)	IS 15658 (Annex B)
61	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex C)
62	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash - Lime Bricks	Compressive Strength	IS 3495 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash - Lime Bricks	Dimension (Height)	IS 12894
64	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash - Lime Bricks	Dimension (Length)	IS 12894
65	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash - Lime Bricks	Dimension (Width)	IS 12894
66	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash - Lime Bricks	Efflorescence	IS 3495 (Part 3)
67	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash - Lime Bricks	Water Absorption	IS 3495 (Part 2)