National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HS LABS PVT LTD, PLOT NO. 576, LONI ROAD, MOHAN NAGAR, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 12/10/2022 to 11/10/2024 **Last Amended on** 25/01/2023

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	Admixture	Ash content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride content	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry material content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	PH value	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Concrete	Chloride	BS 1881 P-124
7	CHEMICAL- BUILDING MATERIAL	Concrete	Chloride	IS 14959 (Part-2)
8	CHEMICAL- BUILDING MATERIAL	Concrete	Sulphate	BS 1881 P-124
9	CHEMICAL- BUILDING MATERIAL	Fine & coarse aggregate	chloride content	BS-EN-1744-1
10	CHEMICAL- BUILDING MATERIAL	Fine & Coarse Aggregate	Sulphate Content	BS-EN 1744-1
11	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combine Alumina oxide And Iron oxide	IS 1727
12	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727
13	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia (MgO)	IS 1727
14	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica content, (SiO2)	IS 1727
15	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride (SO3)	IS 1727
16	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Available alkali as Na2O	IS 4032
17	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Calcium oxide (CaO)	IS 4032
18	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Chloride	IS 4032

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19	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Combine Alumina oxide And Iron oxide	IS 4032
20	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Ferric oxide, (Fe2O3)	IS 4032
21	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Insoluble Residue	IS 4032
22	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Loss on Ignition	IS 4032
23	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Magnesia (MgO)	IS 4032
24	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Silica Content (As SiO2)	IS 4032
25	CHEMICAL- BUILDING MATERIAL	OPC/PPC/PSC	Sulpuric Anhydride (SO3)	IS 4032
26	CHEMICAL- BUILDING MATERIAL	Silica Fume	Available alkali as Na2O	IS 4032
27	CHEMICAL- BUILDING MATERIAL	Silica Fume	Loss on ignition	IS 1727
28	CHEMICAL- BUILDING MATERIAL	Silica Fume	Moisture content	IS 15388
29	CHEMICAL- BUILDING MATERIAL	Silica Fume	Silica	IS 1727
30	CHEMICAL- METALS & ALLOYS	Aluminium& Ferrous Materials	Dry film thickness (Powder Coating)	IS 101 (Part-3/sec-2)
31	CHEMICAL- METALS & ALLOYS	Galvanised Zinc Sheet/Pipes	Mass of Zinc Coating	IS 6745
32	CHEMICAL- METALS & ALLOYS	HT Strand Wire	Phosphorous	IS 228 (Part-3)
33	CHEMICAL- METALS & ALLOYS	HT Strand Wire	Sulphur	IS 228 (Part-9)
34	CHEMICAL- METALS & ALLOYS	Low Carbon Steel / Mild Steel	Carbon	IS:228 (Part-1)
35	CHEMICAL- METALS & ALLOYS	Low Carbon Steel / Mild Steel	Manganese	IS:228 (Part-2)
36	CHEMICAL- METALS & ALLOYS	Low Carbon Steel / Mild Steel	Phosphorous	IS:228 (Part-3)
37	CHEMICAL- METALS & ALLOYS	Low Carbon Steel / Mild Steel	Silicon	IS:228 (Part-8)

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38	CHEMICAL- METALS & ALLOYS	Low Carbon Steel / Mild Steel	Sulphur	IS:228 (Part-9)
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part-1)
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part-6)
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 228 (Part-2)
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part-5)
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 228 (Part-3)
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part-8)
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part-9)
46	CHEMICAL- WATER	Water for Construction purpose	Chloride content	IS 3025 (Part-32)
47	CHEMICAL- WATER	Water for Construction purpose	Inorganic Solids	IS 3025 (Part-18)
48	CHEMICAL- WATER	Water for Construction purpose	Organic Solids	IS 3025 (Part-18)
49	CHEMICAL- WATER	Water for Construction purpose	pH value	IS 3025 (Part-11)
50	CHEMICAL- WATER	Water for Construction purpose	Sulphate content	IS 3025 (Part 24)
51	CHEMICAL- WATER	Water for Construction purpose	Suspended Matter	IS 3025 (Part-17)
52	CHEMICAL- WATER	Water for Construction purpose	Volume of 0.2 normal H2SO4 required to Neutralize 100ml of sample (Alkalinity)	IS 3025 (Part 23)
53	CHEMICAL- WATER	Water for Construction purpose	Volume of 0.2 normal NaOH required to Neutralize 100ml of sample Acidity	IS 3025 (Part 22)
54	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
55	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1448(Pt-69)
56	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
57	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205

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58	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in Trichloroethylene/ carbon disulphide	IS 1216
59	MECHANICAL- BUILDINGS MATERIALS	Bituminous Material	Binder content	ASTM D2172
60	MECHANICAL- BUILDINGS MATERIALS	Bituminous Material	Density	ASTM D2726
61	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Compressive strength	IS 3495 (Part-1)
62	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Dimension (Height)	IS 1077
63	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Dimension (Length)	IS 1077
64	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Dimension (Width)	IS 1077
65	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Efflorescence	IS 3495 (Part-3)
66	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks and Fly ash bricks	Water absorption	IS 3495 (Part-2)
67	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles/ Vitrified Tiles	Hardness by Moh’s scale	IS 13630 (Part 13)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (Part-4)
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3)
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Clay lumps	IS 2386 (Part-2)
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer than 75 micron sieve	IS 2386 (Part-1)
76	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis (4.75mm to 100mm)	IS 2386 (Part-1)

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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
77	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
78	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part-3)
79	MECHANICAL- BUILDINGS MATERIALS	Concrete Flooring Tiles	Water Absorption	IS 1237
80	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)
81	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay lumps	IS 2386 (Part-2)
82	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron sieve	IS 2386 (Part-1)
83	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (45micron to 4.75mm)	IS 2386 (Part-1)
84	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
85	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Part-3)
86	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness (Specific Surface by Blaine’s air permeability)	IS 1727
87	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Particle retained on 45 micron sieve (wet sieving)	IS 1727
88	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516 Part 1/Sec 1
89	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Compressive strength	IS 4031 (Part-6)
90	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Consistency	IS 4031 (Part-4)
91	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Final Setting time	IS 4031 (Part-5)
92	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Fineness by blaine air permeability	IS 4031 (Part-2)
93	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Initial Setting Time	IS 4031 (Part-5)
94	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Soundness By Autoclave method	IS 4031-1988, Part – 3
95	MECHANICAL- BUILDINGS MATERIALS	OPC / PPC	Soundness By Le-Chatelier method	IS 4031-1988, Part – 3

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96	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS 15658
97	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658
98	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Length, L)	IS 15658
99	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness, T)	IS 15658
100	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Width, W)	IS 15658
101	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Plan Area, Asp	IS 15658
102	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
103	MECHANICAL- BUILDINGS MATERIALS	Silica Fumes	Material retained on 45micron IS sieve	IS 1727
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material & Products	Yield Stress	IS: 1608-Part 1
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous material and products	Hardness (HRBW)	IS 1586-Part 1
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous material	Tensile Strength	IS 1608-Part 1
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous material and products	Brinell Hardness (HBW 2.5/187.5)	IS 1500-Part 1
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous material and products	Hardness (HRBW)	IS 1586-Part 1
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous Material and Products (Copper & Aluminium Alloy)	Elongation	IS 1608-Part 1
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous materials	Tensile Strength	IS 1608-Part 1
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous material	bend Test	IS 1599

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112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous materials	Brinell Hardness (HBW 2.5/187.5)	IS 1500-Part 1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous materials	Rockwell Hardness (HRC)	IS 1586 -Part 1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel / Structural Steel/ Hollow Steel/ Steel Tube / Non ferrous material	Bend Test	IS 1599
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel / Structural Steel/ Hollow Steel/ Steel Tube / Non ferrous material	Elongation	IS 1608-Part 1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel / Structural Steel/ Hollow Steel/ Steel Tube / Non ferrous material	Tensile Strength	IS 1608
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement steel / Structural Steel/ Hollow Steel/ Steel Tube / Non ferrous material	Yield Stress	IS 1608 -Part 1
118	MECHANICAL- SOIL AND ROCK	Clays & Soil	California Bearing ratio	IS 2720 (Part -16)
119	MECHANICAL- SOIL AND ROCK	Clays & Soil	Free Swell Index	IS 2720 (Part 40)
120	MECHANICAL- SOIL AND ROCK	Clays & Soil	Grain Size Analysis	IS 2720 (Part-4)
121	MECHANICAL- SOIL AND ROCK	Clays & Soil	Heavy compaction (MDD)	IS 2720 (Part-8)
122	MECHANICAL- SOIL AND ROCK	Clays & Soil	Heavy compaction (OMC)	IS 2720 (Part-8)
123	MECHANICAL- SOIL AND ROCK	Clays & Soil	Light compaction (MDD)	IS 2720 (Part-7)
124	MECHANICAL- SOIL AND ROCK	Clays & Soil	Light compaction (OMC)	IS 2720 (Part-7)
125	MECHANICAL- SOIL AND ROCK	Clays & Soil	Liquid Limit	IS 2720 (Part-5)
126	MECHANICAL- SOIL AND ROCK	Clays & Soil	Plastic Limit	IS 2720 (Part-5)
127	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test	IS 2720 (Part-13)
128	MECHANICAL- SOIL AND ROCK	Stone (Granite, Kota Lime, Marble)	Hardness	IS 13630 (Part-13)

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129	MECHANICAL- SOIL AND ROCK	Stone (Granite, Kota Lime, Marble)	Specific Gravity	IS 1122
130	MECHANICAL- SOIL AND ROCK	Stone (Granite, Kota Lime, Marble)	Water Absorption	IS 1124
131	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials Reinforced Concrete Structures	Rebound Hammer Test	IS 516 Part-5, Sec-4
132	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Building Materials Reinforced Concrete Structures	Ultrasonic Pulse Velocity Test	IS 516 Part-5, Sec -1