National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNIVERSAL TEST HOUSE, GROUND FLOOR, VIKASH PALACE, DANAPUR CUM KHAGAUL, PATNA, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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
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	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Alumina (as Al2O3)	IS 4032 (Clause 4.6.1) (Gravimetric Method)
7	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Calcium Oxide (as CaO)	IS 4032 (Clause 4.7.2) (EDTA Method)
8	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Chloride (as Cl)	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Insoluble Residue	IS 4032 (Clause 4.10)
10	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Iron Oxide as (Fe2O3)	IS 4032 (Clause 4.5.2) (EDTA Method)
11	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Loss on Ignition	IS 4032 (Clause 4.2)
12	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Magnesia (as MgO)	IS 4032 (Clause 4.8.2) (EDTA Method)
13	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Silica (as SiO2)	IS 4032 (Clause 4.3)
14	CHEMICAL- BUILDING MATERIAL	Cement (OPC/ PPC)	Sulphuric Anhydride (as SO3)	IS 4032 (Clause 4.9)
15	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 228 (Part 1)
16	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 228 (Part 2)
17	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus	IS 228 (Part 3)
18	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 228 (Part 8)

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19	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 228 (Part 9)
20	CHEMICAL- WATER	Construction Water	Chloride (as Cl)	IS 3025 (Part 32)
21	CHEMICAL- WATER	Construction Water	Inorganic Matter	IS 3025 (Part 18)
22	CHEMICAL- WATER	Construction Water	Limit of Acidity (Quantity of 0.02N NaOH required to Neutralize 100 ml of Water)	IS 3025 (Part 22)
23	CHEMICAL- WATER	Construction Water	Limit of Alkalinity (Quantity of 0.02N H2SO4 required to Neutralize 100 ml of Water)	IS 3025 (Part 23)
24	CHEMICAL- WATER	Construction Water	Organic Matter	IS 3025 (Part 18)
25	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
26	CHEMICAL- WATER	Construction Water	Sulphate (as SO3)	IS 3025 (Part 24)
27	CHEMICAL- WATER	Construction Water	Suspended Matter	IS 3025 (Part 17)
28	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40)
29	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32)
30	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part 46)
31	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
32	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
33	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 (Part 21)
34	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension (Height)	IS 1077
35	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension (Length)	IS 1077
36	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension (Width)	IS 1077
37	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash Bricks	Compressive Strength	IS 3495 (Part 1)
38	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash Bricks	Efflorescence	IS 3495 (Part 3)
39	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ Flyash Bricks	Water Absorption	IS 3495 (Part 2)
40	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Compressive Strength	IS 4031 (Part 6)
41	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Consistency	IS 4031 (Part 4)

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42	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Density	IS 4031 (Part 11)
43	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Final Setting Time	IS 4031 (Part 5)
44	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Fineness by Blaine's Air Permeability Method	IS 4031 (Part 2)
45	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Initial Setting Time	IS 4031 (Part 5)
46	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Soundness by Autoclave Expansion Method	IS 4031 (Part 3)
47	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/ PPC)	Soundness by Le-chatelier Expansion Method	IS 4031 (Part 3)
48	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimension (Length)	IS 1237
49	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimension (Thickness)	IS 1237
50	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimension (Width)	IS 1237
51	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Thickness of Wearing Layer	IS 1237
52	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Water Absorption	IS 1237
53	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension (Length)	IS 13630 (Part 1)
54	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension (Width)	IS 13630 (Part 1)
55	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension (Length)	IS 13801
56	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension (Thickness)	IS 13801
57	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension (Width)	IS 13801
58	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Thickness of Wearing Layer	IS 13801
59	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Water Absorption	IS 13801
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part 3)

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61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angeles Abrasion Value	IS 2386 (Part 4)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (80 mm, 63 mm, 40 mm, 20 mm, 16 mm, 12.5 mm, 10 mm, 4.75 mm, 2.36 mm)	IS 2386 (Part 1)
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part 5)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Ten Percent Fines Value	IS 2386 (Part 4)
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Total Deleterious Material	IS 2386 (Part 1 & 2)
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)
72	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3)
73	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulking of Sand	IS 2386 (Part 3)
74	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Deleterious Material	IS 2386 (Part 1 & 2)
75	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Organic Impurities	IS 2386 (Part 2)
76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (10 mm, 4.74 mm, 2.36 mm, 1.18 mm, 0.600 mm, 0.300 mm, 0.150 mm)	IS 2386 (Part 1)
77	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness	IS 2386 (Part 5)
78	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)

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79	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
80	MECHANICAL- BUILDINGS MATERIALS	Flyash Bricks	Dimension (Height)	IS 12894
81	MECHANICAL- BUILDINGS MATERIALS	Flyash Bricks	Dimension (Length)	IS 12894
82	MECHANICAL- BUILDINGS MATERIALS	Flyash Bricks	Dimension (Width)	IS 12894
83	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Beam)	Flexural Strength	IS 516 (Part 1, Section 1)
84	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Core)	Compressive Strength	IS 516 (Part 4)
85	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516 (Part 1, Section 1)
86	MECHANICAL- BUILDINGS MATERIALS	Precast Paving Block	Compressive Strength	IS 15658
87	MECHANICAL- BUILDINGS MATERIALS	Precast Paving Block	Dimension (Length)	IS 15658
88	MECHANICAL- BUILDINGS MATERIALS	Precast Paving Block	Dimension (Thickness)	IS 15658
89	MECHANICAL- BUILDINGS MATERIALS	Precast Paving Block	Dimension (Width)	IS 15658
90	MECHANICAL- BUILDINGS MATERIALS	Precast Paving Block	Water Absorption	IS 15658
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal (Welding Material)	Guide Bend Test	ASME Section 9
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal (Welding Material)	Transverse Tensile Test	ASME Section 9
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT/ Structural Steel	Bend Test (Mandrel Diameter: 18 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 42 mm, 48 mm, 50 mm, 56 mm, 60 mm, 64 mm, 70 mm, 72 mm, 80 mm, 84 mm, 96 mm, 100 mm, 112 mm, 120 mm, 125 mm, 128 mm, 140 mm, 150 mm, 160 mm, 175 mm, 192 mm, 200 mm, 224 mm, 256 mm)	IS 1599

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94	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT/ Structural Steel	Elongation	IS 1608 (Part 1)
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT/ Structural Steel	Mass	IS 1786
96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT/ Structural Steel	Re-bend Test (Mandrel Diameter: 18 mm, 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 42 mm, 48 mm, 50 mm, 56 mm, 60 mm, 64 mm, 70 mm, 72 mm, 80 mm, 84 mm, 96 mm, 100 mm, 112 mm, 120 mm, 125 mm, 128 mm, 140 mm, 150 mm, 160 mm, 175 mm, 192 mm, 200 mm, 224 mm, 256 mm)	IS 1786
97	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT/ Structural Steel	Tensile Strength	IS 1608 (Part 1)
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT/ Structural Steel	Yield Stress	IS 1608 (Part 1)
99	MECHANICAL- SOIL AND ROCK	Soil	CBR Value	IS 2720 (Part 16)
100	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle of Internal Friction, Phi)	IS 2720 (Part 13)
101	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion Intercept C Value)	IS 2720 (Part 13)
102	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
103	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 4)
104	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
105	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part 2)
106	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
107	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Heavy Compaction) MDD	IS 2720 (Part 8)

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108	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Heavy Compaction) OMC	IS 2720 (Part 8)
109	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Light Compaction) MDD	IS 2720 (Part 7)
110	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Light Compaction) OMC	IS 2720 (Part 7)
111	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3/ Section 1)
112	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Test - Cohesion Intercept C Value	IS 2720 (Part 11 & 12)
113	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Test (Angle of Internal Friction) Phi	IS 2720 (Part 11 & 12)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Earth Resistivity Test	IS 3043
2	MECHANICAL- SOIL AND ROCK	Soil	Plate Load Test	IS 1888
3	MECHANICAL- SOIL AND ROCK	Soil	SPT N Value	IS 2131
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Bridge Load Test	IRC SP-51
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Pile Integrity Test	ASTM D5882
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Pile Integrity Test	IS 14893
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Pile Load Test	IS 2911 (Part 4)
8	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer	IS 516 (Part 5/ Section 4)
9	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS 516 (Part 5/ Section 1)