National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY OF VIDYABHARTI TRUST INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE, UMRAKH, BARDOLI, SURAT, GUJARAT, 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- ATMOSPHERIC POLLUTION	Ambient air	Oxides of Nitrogen (NOx)	IS 5182 (Part 06)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM10)	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM2.5)	IS 5182 (Part 24) 2019
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide (SOx)	IS 5182 (Part 02)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen (NOx)	IS 11255 (Part 7)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter (PM)	IS 11255 (Part 1)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Ammonical Nitrogen	APHA 23rd Addition (Part 4500 NH3 - B&C)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Biochemical Oxygen Demand (BOD)	APHA 23rd Addition (Part 5210 - B)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Chemical Oxygen Demand (COD)	APHA 23rd Addition (Part 5220 - B).
11	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Chloride	APHA 23rd Addition (Part 4500 Cl- - B)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Colour	APHA 23rd Addition (Part 2120 - B)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Dissolved Oxygen (DO)	APHA 23rd Addition (Part 4500 - O(C)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Oil and Grease	APHA 23rd Addition (Part 5520 - B)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	pH	APHA 23rd Addition (Part 4500-H+)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Temperature	APHA 23rd Addition (Part 2550)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Dissolved Solids	APHA 23rd Addition (Part 2540 - C)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Solids	APHA 23rd Addition (Part 2540 - B)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents/Sewage	Total Suspended Solids	APHA 23rd Addition (Part 2540 - D)
20	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand (BOD)	APHA 23rd Addition (Part 5210 - B)
21	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	APHA 23rd Addition (Part 5220 - B)
22	CHEMICAL- WATER	Drinking Water	Chloride	APHA 23rd Addition (Part 4500 Cl- - B)
23	CHEMICAL- WATER	Drinking Water	Colour	APHA 23rd Addition (Part 2120 - B)
24	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen (DO)	APHA 23rd Addition (Part 4500 - O(C)
25	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Addition (Part 4500-H+)
26	CHEMICAL- WATER	Drinking Water	Temperature	APHA 23rd Addition (Part 2550)
27	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 23rd Addition (Part 2540 - C)
28	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 23rd Addition (Part 2340 C)
29	CHEMICAL- WATER	Drinking Water	Total Solids	APHA 23rd Addition (Part 2540 - B)
30	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA 23rd Addition (Part 2540 - D)
31	CHEMICAL- WATER	Ground Water	BiochemicalOxygenDemand(BOD)	APHA 23rdAddition(Part 5210 - B) : 2017
32	CHEMICAL- WATER	Ground Water	ChemicalOxygenDemand(COD)	APHA 23rdAddition(Part 5220 - B) : 2017
33	CHEMICAL- WATER	Ground Water	Chloride	APHA 23rdAddition(Part 4500Cl- - B) :2017
34	CHEMICAL- WATER	Ground Water	Colour	APHA 23rdAddition(Part 2120 - B) : 2017
35	CHEMICAL- WATER	Ground Water	DissolvedOxygen (DO)	APHA 23rdAddition(Part 4500 - O(C): 2017
36	CHEMICAL- WATER	Ground Water	pH	APHA 23rdAddition(Part 4500-H+) : 2017
37	CHEMICAL- WATER	Ground Water	Temperature	APHA 23rdAddition(Part 2550):2017

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38	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 23rdAddition(Part 2540 - C): 2017
39	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 23rdAddition(Part 2340C): 2017
40	CHEMICAL- WATER	Ground Water	Total Solids	APHA 23rdAddition(Part 2540 - B): 2017
41	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA 23rdAddition(Part 2540 - D): 2017
42	CHEMICAL- WATER	Irrigation Water	Biochemical Oxygen Demand (BOD)	APHA 23rdAddition(Part 5210 - B) : 2017
43	CHEMICAL- WATER	Irrigation Water	Chemical Oxygen Demand (COD)	APHA 23rdAddition(Part 5220 - B) : 2017
44	CHEMICAL- WATER	Irrigation Water	Chloride	APHA 23rdAddition(Part 4500Cl- - B) :2017
45	CHEMICAL- WATER	Irrigation Water	Colour	APHA 23rdAddition(Part 2120 - B) : 2017
46	CHEMICAL- WATER	Irrigation Water	Dissolved Oxygen (DO)	APHA 23rdAddition(Part 4500 - O(C): 2017
47	CHEMICAL- WATER	Irrigation Water	pH	APHA 23rdAddition(Part 4500-H+) : 2017
48	CHEMICAL- WATER	Irrigation Water	Temperature	APHA 23rdAddition(Part 2550):2017
49	CHEMICAL- WATER	Irrigation Water	Total Dissolved Solids	APHA 23rdAddition(Part 2540 - C): 2017
50	CHEMICAL- WATER	Irrigation Water	Total Hardness	APHA 23rdAddition(Part 2340C): 2017
51	CHEMICAL- WATER	Irrigation Water	Total Solids	APHA 23rdAddition(Part 2540 - B): 2017
52	CHEMICAL- WATER	Irrigation Water	Total Suspended Solids	APHA 23rdAddition(Part 2540 - D): 2017
53	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA 23rdAddition(Part 4500Cl- - B) :2017
54	CHEMICAL- WATER	Packaged Drinking Water	Colour	APHA 23rdAddition(Part 2120 - B) : 2017
55	CHEMICAL- WATER	Packaged Drinking Water	Dissolved Oxygen (DO)	APHA 23rdAddition(Part 4500 - O(C): 2017
56	CHEMICAL- WATER	Packaged Drinking Water	pH	APHA 23rdAddition(Part 4500-H+) : 2017

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57	CHEMICAL- WATER	Packaged Drinking Water	Temperature	APHA 23rd Addition(Part 2550):2017
58	CHEMICAL- WATER	Packaged Drinking Water	Total Dissolved Solids	APHA 23rdAddition(Part 2540 - C): 2017
59	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	APHA 23rdAddition(Part 2340C): 2017
60	CHEMICAL- WATER	Packaged Drinking Water	Total Solids	APHA 23rdAddition(Part 2540 - B): 2017
61	CHEMICAL- WATER	Packaged Drinking Water	Total Suspended Solids	APHA 23rdAddition(Part 2540 - D): 2017
62	CHEMICAL- WATER	Surafece Water	Chloride	APHA 23rdAddition(Part 4500Cl- - B) :2017
63	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand(BOD)	APHA 23rdAddition(Part 5210 - B) : 2017
64	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand(COD)	APHA 23rd Addition(Part 5220 - B) : 2017
65	CHEMICAL- WATER	Surface Water	Colour	APHA 23rdAddition(Part 2120 - B) : 2017
66	CHEMICAL- WATER	Surface Water	DissolvedOxygen (DO)	APHA 23rdAddition(Part 4500 - O(C): 2017
67	CHEMICAL- WATER	Surface Water	pH	APHA 23rdAddition(Part 4500-H+) : 2017
68	CHEMICAL- WATER	Surface Water	Temperature	APHA 23rdAddition(Part 2550):2017
69	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 23rdAddition(Part 2540 - C): 2017
70	CHEMICAL- WATER	Surface Water	Total Hardness	APHA 23rdAddition(Part 2340C): 2017
71	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rdAddition(Part 2540 - B): 2017
72	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rdAddition(Part 2540 - D): 2017
73	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity	IS 1206 (Part-2)
74	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
75	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematics Viscosity	IS 1206 (Part-3)

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76	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration (1/10th mm)	IS 1203
77	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
78	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
79	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Compacted Density of Mix	ASTM D 2726
80	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Test	Binder Content Test	IRC SP 11
81	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Test	Flow Value Test	ASTM-D 6927
82	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix Test	Marshal Stability Test (One set of three samples)	ASTM-D 6927
83	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Compressive Strength (5 No. of bricks)	IS 3495 (Part-I)
84	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension and Tolerance (20 No. of bricks) Length	IS 1077
85	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension and Tolerance (20 No. of bricks) Height	IS 1077
86	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension and Tolerance (20 No. of bricks) Width	IS 1077
87	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Efflorescence	IS 3495 (Part-3)
88	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Water Absorption (5 No. of bricks)	IS 3495 (Part-2)
89	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Consistency	IS 4031 (Part-4)
90	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Compressive Strength	IS 4031 (Part-6)
91	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Density	IS 4031 (Part-11)
92	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Final Setting time	IS 4031 (Part-5)
93	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness by Blaine's air Permeability (Specific surface area)	IS 4031 (Part-2)

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94	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Fineness By dry Sieving	IS 4031 (Part-1)
95	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Initial Setting Time	IS 4031 (Part-5)
96	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC/PPC)	Soundness by Le-Chatelier Appratus	IS 4031 (Part-3)
97	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value	IS 2386 (Part-4)
98	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part -3)
99	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
100	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
101	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness index	IS 2386 (Part-1)
102	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4)
103	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (125 mm to 4.75 mm)	IS 2386 (Part-1)
104	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
105	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3)
106	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3)
107	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 µm	IS 2386 (Part-1)
108	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (10mm, 4.75mm, 2.36mm, 1.18mm,0.6 mm, 0.3mm,0.15mm)	IS 2386 (Part-I)
109	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3)
110	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3)
111	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brciks	Width	IS 13757

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112	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Compressive Strength	IS 3495 (Part-1)
113	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Efflorescence	IS 3495 (Part-3)
114	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Height	IS 13757
115	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Brick	Length	IS 13757
116	MECHANICAL- BUILDINGS MATERIALS	Fly Ash Bricks	Water Absorption	IS 3495 (Part-2)
117	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Slump Test of Fresh Concrete	IS 1199 part-2
118	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength of C.C Cube	IS 516
119	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Compressive Strength	IS 15658
120	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Water Absorption	IS 15658
121	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Bulk Density	IS 6441 (Part-1)
122	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Compressive Strength	IS 6441 (Part-5)
123	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Height	IS 2185 (Part-3)
124	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Length	IS 2185 (Part-3)
125	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Moisture Content	IS 6441 (Part-1)
126	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Width	IS 2185 (Part-3)
127	MECHANICAL- BUILDINGS MATERIALS	Steel	0.2% Proof Stress or Yield Stress	IS 1608 (Part-1)
128	MECHANICAL- BUILDINGS MATERIALS	Steel	Percentage Elongation	IS 1608 (Part-1)
129	MECHANICAL- BUILDINGS MATERIALS	Steel	Ultimate Tensile Strength	IS 1608 (Part-1)
130	MECHANICAL- BUILDINGS MATERIALS	Steel	Weight per Meter length	IS 1786

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131	MECHANICAL- SOIL AND ROCK	Building Stone/Rubble	Compressive Strength	IS 1121 (Part-I)
132	MECHANICAL- SOIL AND ROCK	Building Stone/Rubble	Specific Gravity (Apparent)	IS 1124
133	MECHANICAL- SOIL AND ROCK	Building Stone/Rubble	Water Absorption	IS 1124
134	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143
135	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio Test	IS 2720 (Part-16)
136	MECHANICAL- SOIL AND ROCK	Soil	Direct Box Shear Test (Angle of Internal Friction)	IS 2720 (Part-13)
137	MECHANICAL- SOIL AND ROCK	Soil	Direct Box Shear Test (Cohesion (C))	IS 2720 (Part-13)
138	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core Cutter Method	IS 2720 (Part-29)
139	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Sand Replacement Method	IS 2720 (Part-28)
140	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index of soils	IS 2720 (Part-40)
141	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part-4)
142	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS : 2720, (Part 5)
143	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density by Heavy Compaction	IS 2720 (Part-8)
144	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density by Light Compaction	IS 2720 (Part-7)
145	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content by Heavy Compaction	IS : 2720, (Part 8)
146	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content by Light Compaction	IS : 2720, (Part 7)
147	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS : 2720, (Part 5)
148	MECHANICAL- SOIL AND ROCK	Soil	Triaxial (UU) Test, Angle of Internal Friction	IS 2720 (Part-11)
149	MECHANICAL- SOIL AND ROCK	Soil	Triaxial (UU)Test, Cohesion (C)	IS 2720 (Part-11)

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150	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part-2)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Core Cutter Method	IS 2720 (Part-29)
2	MECHANICAL- SOIL AND ROCK	Soil	Field Dry Density by Sand Replacement Method	IS 2720 (Part-28)

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.