National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PRECISION TEST LAB & CONSULTANT, 31, NEER NAGAR, BICHOLI HAPSI, INDORE, MADHYA PRADESH, 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	Ammonia	Based on CPCB Guideline Vol.-1NAAQMS/36
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Nitrogen Dioxide (NO2)	IS 5182 (Part 6)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone	IS 5182 (Part 9)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM10)	IS 5182 (Part 23)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate Matter (PM2.5)	IS 5182 (Part 24)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Nitogen Dioxide (NO2)	IS 11255 (Part 7)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter (PM)	IS 11255 (Part 1), Clause No. 5 & 6
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur Dioxide (SO2)	IS 11255 (Part 2)
10	CHEMICAL- POLLUTION & ENVIRONMENT	ETP	Iron	IS 3025 (Part 53), Clause No. 6.0
11	CHEMICAL- POLLUTION & ENVIRONMENT	STP	Iron	IS 3025 (Part 53), Clause No. 6.0
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (ETP/Sewage)	Calcium as Ca	IS 3025 (Part 40), Clause No. 2.0
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (ETP/Sewage)	Free Residual Chlorine	IS 3025 (Part 26), Clause No. 3.0
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (ETP/Sewage)	Magnesium as Mg	IS 3025 (Part 46), Clause No. 6.0
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (ETP/Sewage)	Nitrate as NO3	IS 3025 (Part 34), Clause No. 3.3
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (ETP/Sewage)	Nitrite as NO2	IS 3025 (Part 34), Clause No. 4.0
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water (ETP/Sewage)	Total Kjeldahl Nitrogen	IS 3025 (Part 34), Clause No. 5.3
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammonical Nitrogen as NH3.N	IS 3025 (Part 34), Clause No. 2.4 & 2.5

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biochemical Oxygen Demand (@27°C for 3 Days)	IS 3025 (Part 44)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand	IS 3025 (Part 58)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride as Cl	IS 3025 (Part 32), Clause No. 2.0
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Conductivity	IS 3025 (Part 14)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Oxygen	IS 3025 (Part 38)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Odour	IS 3025 (Part 5)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	IS 3025 (Part 39), Clause No. 5.0
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	IS 3025 (Part 11), Clause No. 2.0
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolphthalein Alkalinity as CaCO3	IS 3025 (Part 23)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate as SO4	IS 3025 (Part 24), Clause no. 2.0 & 4.0
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Acidity as CaCO3	IS 3025 (Part 22)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Alkalinity as CaCO3	IS 3025 (Part 23)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	IS 3025 (Part 16)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness as CaCO3	IS 3025 (Part 21)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	IS 3025 (Part 17)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Turbidity	IS 3025 (Part 10)
35	CHEMICAL- POLLUTION & ENVIRONMENT	WTP	Iron	IS 3025 (Part 53), Clause No. 6.0
36	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen as NH3.N	IS 3025 (Part 34), Clause No. 2.4 & 2.5
37	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand (@27°C for 3 Days)	IS 3025 (Part 44)

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38	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40), Clause No. 2.0
39	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand	IS 3025 (Part 58)
40	CHEMICAL- WATER	Drinking Water	Chloride as Cl-	IS 3025 (Part 32)
41	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025 (Part 14)
42	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38)
43	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 (Part 26) Clause No. 3.0
44	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part 53), Clause No. 6.0
45	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (Part 46), Clause No. 6.0
46	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	IS 3025 (Part 34), Clause No. 3.3
47	CHEMICAL- WATER	Drinking Water	Nitrite as NO2	IS 3025 (Part 34), Clause no. 4.0
48	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
49	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS 3025 (Part 39), Clause No. 5.0
50	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part-11), Clause No. 2.0
51	CHEMICAL- WATER	Drinking Water	Phenolphthalein Alkalinity as Caco3	IS 3025 (Part 23)
52	CHEMICAL- WATER	Drinking Water	Sulphate as SO4	IS 3025 (Part 24),Clause no. 2.0 & 4.0
53	CHEMICAL- WATER	Drinking Water	Total Acidity CaCO3	IS 3025 (Part 22)
54	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
55	CHEMICAL- WATER	Drinking Water	Total Dissolved solids	IS 3025 (Part 16)
56	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 (Part 21)
57	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen	IS 3025 (Part 34), Clause No. 5.3
58	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17)
59	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
60	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen as NH3.N	IS 3025 (Part 34), Clause No. 2.4 & 2.5

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61	CHEMICAL- WATER	Ground Water	Biochemical Oxygen Demand (@27°C for 3 Days)	IS 3025 (Part 44)
62	CHEMICAL- WATER	Ground Water	Calcium as Ca	IS 3025 (Part 40), Clause No. 2.0
63	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand	IS 3025 (Part 58)
64	CHEMICAL- WATER	Ground Water	Chloride as Cl-	IS 3025 (Part 32), Clause No. 2.0
65	CHEMICAL- WATER	Ground Water	Conductivity	IS 3025 (Part 14)
66	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	IS 3025 (Part 38)
67	CHEMICAL- WATER	Ground Water	Free Residual Chlorine	IS 3025 (Part 26), Clause No. 3.0
68	CHEMICAL- WATER	Ground Water	Magnesium as Mg	IS 3025 (Part 46), Clause No. 6.0
69	CHEMICAL- WATER	Ground Water	Nitrate as NO3	IS 3025 (Part 34), Clause No. 3.3
70	CHEMICAL- WATER	Ground Water	Nitrite as NO2	IS 3025 (Part 34), Clause No. 4.0
71	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 5)
72	CHEMICAL- WATER	Ground Water	Oil & Grease	IS 3025 (Part 39), Clause No. 5.0
73	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11), Clause No. 2.0
74	CHEMICAL- WATER	Ground Water	Phenolphthalein Alkalinity as CaCO3	IS 3025 (Part 23)
75	CHEMICAL- WATER	Ground Water	Sulphate as SO4	IS 3025 (Part 24),Clause No. 2.0 & 4.0
76	CHEMICAL- WATER	Ground Water	Total Acidity CaCO3	IS 3025 (Part 22)
77	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
78	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16)
79	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO3	IS 3025 (Part 21)
80	CHEMICAL- WATER	Ground Water	Total Kjeldahl Nitrogen	IS 3025 (Part 34), Clause No. 5.3
81	CHEMICAL- WATER	Ground Water	Total Suspended Solids	IS 3025 (Part 17)
82	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)
83	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen as NH3.N	IS 3025 (Part 34), Clause No. 2.4 & 2.5

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84	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand (@°27C for 3 Days)	IS 3025 (Part 44)
85	CHEMICAL- WATER	Surface Water	Calcium as Ca	IS 3025 (Part 40), Clause No. 2.0
86	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand	IS 3025 (Part 58)
87	CHEMICAL- WATER	Surface Water	Chloride as Cl-	IS 3025 (Part 32), Clause No. 2.0
88	CHEMICAL- WATER	Surface Water	Conductivity	IS 3025 (Part 14)
89	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38)
90	CHEMICAL- WATER	Surface Water	Free Residual Chlorine	IS 3025 (Part 26), Clause No. 3.0
91	CHEMICAL- WATER	Surface Water	Iron	IS 3025 (Part 53), Clause No. 6.0
92	CHEMICAL- WATER	Surface Water	Magnesium as Mg	IS 3025 (Part 46), Clause No. 6.0
93	CHEMICAL- WATER	Surface Water	Nitrate as No3	IS 3025 (Part 34), Clause No. 3.3
94	CHEMICAL- WATER	Surface Water	Nitrite as NO2	IS 3025 (Part 34), Clause no. 4.0
95	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5)
96	CHEMICAL- WATER	Surface Water	Oil & Grease	IS 3025 (Part 39), Clause No. 5.0
97	CHEMICAL- WATER	Surface Water	pH	IS 3025 (Part 11), Clause No. 2.0
98	CHEMICAL- WATER	Surface Water	Phenolphthalein Alkalinity as CaCO3	IS 3025 (Part 23)
99	CHEMICAL- WATER	Surface Water	Sulphate as SO4	IS 3025 (Part 24), Clause No. 2.0 & 4.0
100	CHEMICAL- WATER	Surface Water	Total Acidity CaCO3	IS 3025 (Part 22)
101	CHEMICAL- WATER	Surface Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
102	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
103	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	IS 3025 (Part 21)
104	CHEMICAL- WATER	Surface Water	Total Kjeldahl Nitrogen	IS 3025 (Part 34), Clause no. 5.3
105	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 (Part 17)
106	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)

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107	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part 32), Clause No. 2.0
108	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids	IS 3025 (Part 18)
109	CHEMICAL- WATER	Water for construction purpose	Organic Solids	IS 3025 (Part 18)
110	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part 11), Clause No. 2.0
111	CHEMICAL- WATER	Water for construction purpose	Sulphate as SO4	IS 3025 (Part 24), Clause No. 2.0 & 4.0
112	CHEMICAL- WATER	Water for construction purpose	To neutralize 100 ml sample of water, titrate with 0.02 N of H2SO4 using mixed as an indicator	IS 3025 (Part 23)
113	CHEMICAL- WATER	Water for construction purpose	To neutralize 100 ml sample of water, titrate with 0.02 N of NaOH using phenolphthalein as an indicator	IS 3025 (Part 22)
114	CHEMICAL- WATER	Water for construction purpose	Total Suspended Soilds	IS 3025 (Part 17)
115	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5), Clause No. 4.0
116	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dry Density	IS 6441 (Part 1), Clause No. 4.0
117	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Crushing value	IS 2386 (Part 4), Clause No. 2.4
118	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Flakiness Index	IS 2386 (Part 1), Clause No. 4.4
119	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Impact Value	IS 2386 (Part 4), Clause No. 4.0
120	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Sieve Analysis	IS : 2386 (Part 1), Clause No. 2.4
121	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386 (Part 3), Clause No. 2.2, 2.3 & 2.4
122	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386 (Part 3), Clause No. 2.2, 2.3 & 2.4
123	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis	IS 2386 (Part 1), Clause No. 2.4
124	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Silt Content	IS 2386 (Part 1), Clause No. 3.0

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125	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386 (Part 3), Clause No. 2.4
126	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386 (Part 3), Clause No. 2.4
127	MECHANICAL- BUILDINGS MATERIALS	Aggregate(Coarse)	Elongation Index	IS 2386 (Part 1), Clause No. 5.0
128	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208, Clause No. 4.0
129	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Value	IS 1203, Clause No. 4.0
130	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205, Clause No. 4.0
131	MECHANICAL- BUILDINGS MATERIALS	Brick (clay/ Fly Ash)	Water Absorption	IS 3495 (Part 2), Clause No. 4.1
132	MECHANICAL- BUILDINGS MATERIALS	Brick Clay/Fly Ash	Compressive Strength	IS 3495 (Part 1), Clause No. 4.1
133	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6), Clause No. 6.0 & 7.0
134	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4), Clause No. 5.0
135	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5), Clause No. 5.1 & 5.3
136	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
137	MECHANICAL- BUILDINGS MATERIALS	Cement	LeChatlier Soundness	IS 4031 (Part 3)
138	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Bulk Density	IS 2386 (Part 3), Clause No. 3.40
139	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube/Core	Compressive Strength	IS 516
140	MECHANICAL- BUILDINGS MATERIALS	Concrete Paver Block	Water Absorption	IS 15658, Clause No. 7.3
141	MECHANICAL- BUILDINGS MATERIALS	Concrete Pavers Blocks	Compressive Strength	IS 15658, Clause No. 7.3
142	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3), Clause No. 3.40
143	MECHANICAL- BUILDINGS MATERIALS	Vitrified/Ceramic Tiles	Bulk Density	IS 15622

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144	MECHANICAL- BUILDINGS MATERIALS	Vitrified/Ceramic Tiles	Water Absorption	IS 15622
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Bend	IS 1599
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Coupler	Elongation %	IS 16172
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Coupler	Tensile Strength	IS 16172
148	MECHANICAL- SOIL AND ROCK	Clays & Soil	Direct Shear Test	IS 2720 (Part 13)
149	MECHANICAL- SOIL AND ROCK	Clays & Soil	Liquid Limit	IS 2720 (Part 5)
150	MECHANICAL- SOIL AND ROCK	Clays & Soil	Maximum Dry Density-Heavy Compaction	IS 2720 (Part 8)
151	MECHANICAL- SOIL AND ROCK	Clays & Soil	Optimum Moisture Content-Heavy Compaction	IS 2720 (Part 8)
152	MECHANICAL- SOIL AND ROCK	Clays & Soils	California Bearing Ratio	IS 2720 (Part 16)
153	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear Test UU	IS 2720 (Part 13)
154	MECHANICAL- SOIL AND ROCK	Clays & Soils	Natural Moisture Content	IS 2720 (Part 2)
155	MECHANICAL- SOIL AND ROCK	Clays & Soils	Plastic Limit	IS 2720 (Part 5)
156	MECHANICAL- SOIL AND ROCK	Clays & Soils	Tri-Axial Shear Test-Unconsolidated Undrained	IS 2720 (Part 11)
157	MECHANICAL- SOIL AND ROCK	Clays & Soils	Triaxial Shear Test-Unconsolidated Undrained	IS 2720 (Part 11)
158	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
159	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 13030
160	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS 13030
161	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)

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162	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
163	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part -3, Sec-1)
164	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
165	MECHANICAL- SOIL AND ROCK	Stones	Unconfined Compressive strength	IS 9143