National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HYDEL LABORATORIES PRIVATE LIMITED, PLOT NO. 2/20, SECTOR-02, RAJENDER NAGAR, SAHIBABAD, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 26/04/2021 to 25/04/2023 **Last Amended on** 21/07/2022

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	IS:5182 (P-25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Di-oxide	IS:5182 (P-6)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone	IS:5182 (P-9)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 10	IS:5182(P-23)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 2.5	IS:5182
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide	IS:5182 (P-2)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Indoor Air Quality	Nitrogen Di-oxide	IS:5182(P-6)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Indoor Air Quality	Sulphur Di-oxide	IS:5182(P-2)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide	IS:13270
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Carbon Monoxide	IS:3270
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxide of Nitrogen	IS:11255(P-7)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen	IS:13270
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Particular Matter	IS:11255(P-1)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide	IS:11255
15	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Acid Insoluble ash	FSSAI Lab Manual-Cereal and Cereal products, Page No. - 40
16	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Crude Fibre	IS:10226(Part-1)
17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Energy Value	IS:14433

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18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Fat	FSSAI Lab Manual-Cereal and Cereal products
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	packaged Food Products (Cereal based products)	Moisture	FSSAI Lab Manual-Cereal and Cereal products, Page No. 8
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Protein	IS:7219
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Total Ash	FSSAI Lab Manual-Cereal and Cereal products, Page No. - 14
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products (Cereal based products)	Vitamin C	IS 5838
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Packaged Food Products(Cereal based products)	Carbohydrate	IS:1656
24	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	Bio Chemical oxygen Demand BOD(3 days at 270C)	IS:3025(P-44)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	COD	IS:3025(P-58)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	Oil & Grease	IS:025(P-39)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	pH	IS:3025(P-11)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	Temperature	IS:3025(Part-9)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	Total Nitrogen	IS:3025(Part-34)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent & sewage	TSS	IS:3025(P-17)
31	CHEMICAL- WATER	Construction water	Acidity	IS:3025(P-23)
32	CHEMICAL- WATER	Construction water	Ammonia	IS:3025(Part-34)
33	CHEMICAL- WATER	Construction water	chloride	IS:3025
34	CHEMICAL- WATER	Construction water	Inorganic Solids	IS:3025(P-18)
35	CHEMICAL- WATER	construction water	Organic solids	IS:3025(P-18
36	CHEMICAL- WATER	construction water	pH	IS:3025(P-11)

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37	CHEMICAL- WATER	construction water	sulphate	IS:3025(P-24)
38	CHEMICAL- WATER	construction water	suspended solids	IS:3025(P-17)
39	CHEMICAL- WATER	Cooling Tower Water	COD	IS:3025(P-58)
40	CHEMICAL- WATER	Cooling Tower Water	pH	IS:3025(P-11)
41	CHEMICAL- WATER	Cooling Tower Water	Residual Chlorine	IS:3025(P-26)
42	CHEMICAL- WATER	Cooling Tower Water	silica	IS:3025(P-35)
43	CHEMICAL- WATER	Cooling Tower Water	sulphate	IS:3025(P-24)
44	CHEMICAL- WATER	Cooling Tower Water	TDS	IS:3025(P-16)
45	CHEMICAL- WATER	Cooling Tower Water	Total Hardness	IS:3025(P-21)
46	CHEMICAL- WATER	Cooling Tower Water	Turbidity	IS:3025(P-10)
47	CHEMICAL- WATER	Drinking Water	Calcium	IS:3025(P-40)
48	CHEMICAL- WATER	Drinking Water	chloride	IS:3025(P-32)
49	CHEMICAL- WATER	Drinking Water	colour	IS:3025(Part-4)
50	CHEMICAL- WATER	Drinking Water	Fluoride	IS:3025(P-0)
51	CHEMICAL- WATER	Drinking Water	Iron	IS:3025(P-53)
52	CHEMICAL- WATER	Drinking Water	Magnesium(Mg)	IS:3025(P-46)
53	CHEMICAL- WATER	Drinking Water	Nitrate	IS:3025(P-34)
54	CHEMICAL- WATER	Drinking Water	Odour	IS:3025(p-5)
55	CHEMICAL- WATER	Drinking Water	pH	IS:3025(P-11)
56	CHEMICAL- WATER	Drinking Water	Residual Free chlorine(Rfc)	IS:3025(P-26)
57	CHEMICAL- WATER	Drinking Water	sulphate(SO4)	IS:3025(P-24)
58	CHEMICAL- WATER	Drinking Water	Taste	IS:3025(P-8)
59	CHEMICAL- WATER	Drinking Water	Total dissolve solids	IS:3025(P-16)
60	CHEMICAL- WATER	Drinking Water	Total alkalinity	IS:3025(P-23)
61	CHEMICAL- WATER	Drinking Water	Total Hardness	IS:3025(P-21)
62	CHEMICAL- WATER	Drinking Water	Turbidity	IS:3025(P-10)
63	CHEMICAL- WATER	Water for Swimming Pool	Alkalinity	IS:3025(P-23)
64	CHEMICAL- WATER	Water for Swimming Pool	chloride	IS:3025(P-32)
65	CHEMICAL- WATER	Water for Swimming Pool	colour	IS:3025{P-4)
66	CHEMICAL- WATER	Water for Swimming Pool	Iron	IS:3025{P-53)

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67	CHEMICAL- WATER	Water for Swimming Pool	Odour	IS:3025(P-5)
68	CHEMICAL- WATER	Water for Swimming Pool	pH	IS:3025(P-11)
69	CHEMICAL- WATER	Water for Swimming Pool	Taste	IS:3025(P-8)
70	CHEMICAL- WATER	Water for Swimming Pool	Total dissolve solids	IS:3025(P-16)
71	CHEMICAL- WATER	Water for Swimming Pool	Total Residual Chlorine	IS:3025(P-26)
72	CHEMICAL- WATER	Water for Swimming Pool	Turbidity	IS:3025(P-10)
73	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Block density	IS:6441 (P-1)
74	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS:6441 (P-5)
75	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension, Length	IS:2185(P-3)
76	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension, Width	IS:2185(P-3)
77	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension,Thickness	IS:2185(P-3)
78	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS;1209
79	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration at 25°C	IS:1203
80	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS:1205
81	MECHANICAL- BUILDINGS MATERIALS	Bituminous Material	Bitumen Content	IRC SP 11
82	MECHANICAL- BUILDINGS MATERIALS	Bituminous Material	Density	ASTMD2726
83	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS:3495(P-1)
84	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension, Length	IS 1077
85	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension, Width	IS 1077
86	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension,Thickness	IS:1077
87	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS:3495(P-2)

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88	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386(P-4)
89	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS:2386(P-3)
90	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386(P-4)
91	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(P-1)
92	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386(P-1)
93	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386(P-4)
94	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve analysis 1. 0.075 mm Brass frame 2. 0.090 mm Brass frame 3. 0.150 mm Brass frame 4. 0.300 mm Brass frame 5. 0.425 mm Brass frame 6. 0.600 mm Brass frame 7. 0.850 mm Brass frame 8. 1.0 mm Brass frame 9. 1.18 mm Brass frame 10. 2.0 mm Brass frame 11. 2.36 mm brass frame, GI frame 12. 3.35 mm GI frame 13. 4.0 mm GI frame 14. 4.75 mm Brass frame & GI frame 15. 5.6 mm GI frame 16. 6.3 mm GI frame 17. 8.0 mm GI frame 18. 9.5 mm GI frame 19. 10.0 mm brass frame & GI frame 20. 11.2 mm GI frame 21.	IS:2386(P-1)
95	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386(P-3)
96	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386(P-3)
97	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength	IS:516 Part-1 Sec -1
98	MECHANICAL- BUILDINGS MATERIALS	Efforescence	Efflorescence	IS:3495(P-3)
99	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS:2386(P-3)

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100	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Coarse Sand	Material finer than 75 micron (Silt Content)	IS 2386(P-1)
101	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Coarse Sand	Sieve Analysis 1. 0.075 mm Brass frame 2. 0.090 mm Brass frame 3. 0.150 mm Brass frame 4. 0.300 mm Brass frame 5. 0.425 mm Brass frame 6. 0.600 mm Brass frame 7. 0.850 mm Brass frame 8. 1.0 mm Brass frame 9. 1.18 mm Brass frame 10. 2.0 mm Brass frame 11. 2.36 mm brass frame, GI frame 12. 3.35 mm GI frame 13. 4.0 mm GI frame 14. 4.75 mm Brass frame & GI frame 15. 5.6 mm GI frame 16. 6.3 mm GI frame 17. 8.0 mm GI frame 18. 9.5 mm GI frame 19. 10.0 mm brass frame & GI frame 20. 11.2 mm GI frame 21.	IS 2386(P-1)
102	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Coarse Sand	Specific Gravity	IS 2386(P-3)
103	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate/Coarse Sand	Water Absorption	IS 2386(P-3)
104	MECHANICAL- BUILDINGS MATERIALS	Kota stone/Marble/Granite	Moisture content for 24 hrs	IS:1124
105	MECHANICAL- BUILDINGS MATERIALS	Kota stone/Marble/Granite	True Specific Gravity	IS:1122
106	MECHANICAL- BUILDINGS MATERIALS	Kota stone/marble/granite	Water Absorption	IS:1124
107	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS:15658
108	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension, Length	IS:15658
109	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension. Width	IS:15658
110	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension.Thickness	IS:15658
111	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS:15658

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112	MECHANICAL- BUILDINGS MATERIALS	Stone/Marble/ granite	Moh's Hardness	IS:13630(P-13)
113	MECHANICAL- BUILDINGS MATERIALS	Wood (Timber)	Density	IS:1708(P-2)
114	MECHANICAL- BUILDINGS MATERIALS	Wood (Timber)	Moisture Content	IS:1708(P-1)
115	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS:2720(P-16)
116	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS:2720(P-40)
117	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS:2720 (P-4)
118	MECHANICAL- SOIL AND ROCK	soil	Heavy Compaction, Maximum Dry Density	IS 2720(P-8)
119	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction, Optimum Moisture Content	IS:2720 (P-8)
120	MECHANICAL- SOIL AND ROCK	Soil	Light compaction, Maximum Dry Density	IS:2720(P-7)
121	MECHANICAL- SOIL AND ROCK	Soil	Light compaction, Optimum Moisture Content	IS 2720(P-7)
122	MECHANICAL- SOIL AND ROCK	soil	Liquid Limit	IS :2720(P-5)
123	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS:2720(P-5)
124	MECHANICAL- SOIL AND ROCK	Soil	Plasticity Index	IS:2720(P-5)
125	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS:2720 (P-3), SEC-2