National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : IMARAT ENGINEERING LAB, SCF 29 SST NAGAR, PATIALA, PUNJAB, 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- POLLUTION & ENVIRONMENT	Waste Water	Acidity	IS 3025 (Part 22)
2	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	APHA 24th Edition; 2320 (Part B)
3	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity	IS 3025 (Part 23)
4	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammoniacal nitrogen (NH3-N)	APHA 24th Edition; 4500 NH3 (Part C)
5	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen (NH3-N)	IS 3025 (Part 34 (2C))
6	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand (BOD) (3 Days)	IS 3025 (Part 44)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as Ca	APHA 24th Edition; 3500 Ca (Part B):
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as Ca	IS 3025 (Part 40)-1991,R.A.
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as CaCO3	APHA 24th Edition; 3500 Ca (Part B):
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium as CaCO3	IS 3025 (Part 40)-1991,R.A
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2006,R.A
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride	APHA 24th Edition; 4500 Cl- (Part B)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride	IS 3025 (Part 32)-1988,R.A
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Color	IS 3025 (Part 4):
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen	IS 3025 (Part 38)-1989,R.A
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron	APHA 24th Edition; 3500 Fe (Part B)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron	IS 3025 (Part 53)-2003,R.A
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium as Mg	APHA 24th Edition; 3500 Mg (Part B)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrate Nitrogen (as NO3-N)	APHA 24th Edition; 4500 NO3- (Part B)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrite Nitrogen (as NO2-N)	APHA 24th Edition; 4500 NO2- (Part B)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrite Nitrogen (as NO2-N)	IS 3025 (Part 34 (4))
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Odour	IS 3025 (Part 5)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Organic Nitrogen (as Norg-N)	APHA 24th Edition; 4500 No3 (Part B)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Organic Nitrogen (as Norg-N)	IS 3025 (Part 34 (5A))
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS 3025 (Part 11)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phosphorus	APHA 24th Edition; 4500 P (Part C)
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Potassium	APHA 24th Edition; 3500 K (Part B)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Potassium	IS 3025 (Part 45 (A))
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium	APHA 24th Edition; 3500 Na (Part B)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sodium	IS 3025 (Part 45 (A))
31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Specific Conductance	IS 3025 (Part 14)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulfide	APHA 24th Edition;4500 S2- (Part F)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate	IS 3025 (Part 24) Sec 1
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	APHA 24th Edition; 2540 (Part C)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolved Solids	IS 3025 (Part 16)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness (as CaCO3)	APHA 24th Edition; 2340 (Part C)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness (as CaCO3)	IS 3025 (Part 21)

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Nitrogen (as N)	APHA 24th Edition; 4500 N
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	APHA 24th Edition; 2540 (Part D)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	IS 3025 (Part 17)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	APHA 24th Edition; 2130 (Part B)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	IS 3025 (Part 10)
43	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA 24th Edition; 2320 (Part B)
44	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part 23)
45	CHEMICAL- WATER	Drinking Water	Ammoniacal Nitrogen	IS 3025 (Part 34)
46	CHEMICAL- WATER	Drinking Water	Calcium	APHA 24th Edition; 3500-Ca (Part B)
47	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40)
48	CHEMICAL- WATER	Drinking Water	Chloride	APHA 24th Edition; 4500-Cl- (Part B)
49	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32)
50	CHEMICAL- WATER	Drinking Water	Color	IS 3025 (Part 4)
51	CHEMICAL- WATER	Drinking Water	Iron	APHA 24th Edition; 3500-Fe (Part B)
52	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part 53 (A))
53	CHEMICAL- WATER	Drinking Water	Magnesium	APHA 24th Edition;3500-Mg (Part B)
54	CHEMICAL- WATER	Drinking Water	Nitrate	APHA 24th Edition; 4500-NO3- (Part B)
55	CHEMICAL- WATER	Drinking Water	Nitrogen (Ammonia)	APHA 24th Edition; 4500-NH3 (Part C)
56	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 5)
57	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
58	CHEMICAL- WATER	Drinking Water	Sulfide	APHA 24th Edition; 4500-S2- (Part F)
59	CHEMICAL- WATER	Drinking Water	Sulphates	IS 3025 (Part 24 (iii))

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60	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA 24th Edition; 2540 (Part C)
61	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
62	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 24th Edition; 2340 (Part C)
63	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 (Part 21)
64	CHEMICAL- WATER	Drinking Water	Turbidity	APHA 24th Edition; 2130 (Part B)
65	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
66	CHEMICAL- WATER	Ground Water	Acidity	IS 3025 (Part 22)
67	CHEMICAL- WATER	Ground Water	Alkalinity	APHA 24th Edition; 2320 (Part B)
68	CHEMICAL- WATER	Ground Water	Alkalinity	IS 3025 (Part 23)
69	CHEMICAL- WATER	Ground Water	Ammoniacal Nitrogen	APHA 24th Edition; 4500-NH3 (Part C)
70	CHEMICAL- WATER	Ground Water	Ammoniacal Nitrogen	IS 3025 (Part 34)
71	CHEMICAL- WATER	Ground Water	Calcium	APHA 24th Edition;3500-Ca (Part B)
72	CHEMICAL- WATER	Ground Water	Calcium	IS 3025 (Part 40 (A))
73	CHEMICAL- WATER	Ground Water	Chloride	APHA 24th Edition;4500-Cl- (Part B)
74	CHEMICAL- WATER	Ground Water	Chloride	IS 3025 (Part 32)
75	CHEMICAL- WATER	Ground Water	Color	IS 3025 part 4
76	CHEMICAL- WATER	Ground Water	Iron	APHA 24th Edition;3500-Fe (Part B)
77	CHEMICAL- WATER	Ground Water	Iron	IS 3025 (Part 53)
78	CHEMICAL- WATER	Ground Water	Magnesium	APHA 24th Edition; 3500-Mg (Part B)
79	CHEMICAL- WATER	Ground Water	Nitrate Nitrogen	APHA 24th Edition; 4500-NO3- (Part B)
80	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 5)
81	CHEMICAL- WATER	Ground Water	pH	IS 3025 (Part 11)
82	CHEMICAL- WATER	Ground Water	Phosphorus	APHA 24th Edition;4500-P (Part C)
83	CHEMICAL- WATER	Ground Water	Specific Conductance	IS 3025 (Part 14)

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84	CHEMICAL- WATER	Ground Water	Sulfide	APHA 24th Edition; 4500-S2- (Part F)
85	CHEMICAL- WATER	Ground Water	Sulphate	IS 3025 (Part 24)
86	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA 24th Edition; 2540 (Part C)
87	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16)
88	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 24th Edition; 2340 (Part C)
89	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025 (Part 21)
90	CHEMICAL- WATER	Ground Water	Turbidity	APHA 24th Edition; 2130 (Part B)
91	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)
92	CHEMICAL- WATER	Surface Water	Alkalinity	APHA 24th Edition; 2320 (Part B)
93	CHEMICAL- WATER	Surface Water	Alkalinity	IS 3025 (Part 23)
94	CHEMICAL- WATER	Surface Water	Ammoniacal Nitrogen	APHA 24th Edition; 4500-NH3 (Part C)
95	CHEMICAL- WATER	Surface Water	Ammoniacal Nitrogen	IS 3025 (Part 34)
96	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand	IS 3025 (Part 44)
97	CHEMICAL- WATER	Surface Water	Calcium as Ca	APHA 24th Edition; 3500-Ca (Part B)
98	CHEMICAL- WATER	Surface Water	Calcium as Ca	IS 3025 (Part 40)
99	CHEMICAL- WATER	Surface Water	Calcium as CaCO3	APHA 24th Edition;3500-Ca (Part B)
100	CHEMICAL- WATER	Surface Water	Calcium as CaCO3	IS 3025 (Part 40)
101	CHEMICAL- WATER	Surface Water	Chloride	APHA 24th Edition; 4500-Cl- (Part B)
102	CHEMICAL- WATER	Surface Water	Chloride	IS 3025 (Part 32)
103	CHEMICAL- WATER	Surface Water	Color	IS 3025 part 4
104	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38)
105	CHEMICAL- WATER	Surface Water	Iron	APHA 24th Edition; 3500-Fe (Part B)
106	CHEMICAL- WATER	Surface Water	Iron	IS 3025 (Part 53)
107	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA 24th Edition; 3500-Mg (Part B)

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108	CHEMICAL- WATER	Surface Water	Nitrate Nitrogen	APHA 24th Edition; 4500-NO3- (Part B)
109	CHEMICAL- WATER	Surface Water	Odour	IS 3025 (Part 5)
110	CHEMICAL- WATER	Surface Water	pH	IS 3025 (Part 11)
111	CHEMICAL- WATER	Surface Water	Phosphorus	APHA 24th Edition; 4500-P (Part C)
112	CHEMICAL- WATER	Surface Water	Specific Conductance	IS 3025 (Part 14)
113	CHEMICAL- WATER	Surface Water	Sulfide	APHA 24th Edition; 4500-S2- (Part F)
114	CHEMICAL- WATER	Surface Water	Sulphate	IS 3025 (Part 24)
115	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 24th Edition; 2540 (Part C)
116	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
117	CHEMICAL- WATER	Surface Water	Total Hardness	APHA 24th Edition; 2340 (Part C)
118	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 (Part 21)
119	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 24th Edition; 2540 (Part D)
120	CHEMICAL- WATER	Surface Water	Total Suspended Solids	IS 3025 (Part 17)
121	CHEMICAL- WATER	Surface Water	Turbidity	APHA 24th Edition; 2130 (Part B)
122	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)
123	CHEMICAL- WATER	Water for construction purpose	Acidity (0.02 N NaOH used to neutralize 100 ml of water sample using Phenolphthalein indicator)	IS 3025 (Part 22)
124	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part 32)
125	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids	IS 3025 (Part 18)
126	CHEMICAL- WATER	Water for construction purpose	Limit of Alkalinity (0.02 H2SO4 used to neutralize 100 ml of water sample using mixed indicator)	IS 3025 (Part 23)
127	CHEMICAL- WATER	Water for construction purpose	Organic Solids	IS 3025 (Part 18)
128	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part 11)
129	CHEMICAL- WATER	Water for construction purpose	Sulphate as SO3	IS 3025 (Part 24 (iii))
130	CHEMICAL- WATER	Water for construction purpose	Suspended solid matter	IS 3025 (Part 17)

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131	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
132	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration Test	IS 1203
133	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
134	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
135	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Extraction Test	IRC SP 011
136	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (PART 1)
137	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (PART 3)
138	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (PART 2)
139	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
140	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
141	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting time	IS 4031 (Part 5)
142	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
143	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Lechatelier's Method	IS 4031 (Part 3)
144	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggreagtes	Impact Value	IS 2386 (PART 4)
145	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis	IS 2386 (PART I)
146	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (PART III)
147	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (PART III)
148	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 516
149	MECHANICAL- BUILDINGS MATERIALS	Concrete	Slump Test	IS 1199

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150	MECHANICAL- BUILDINGS MATERIALS	Concrete Pavers	Compressive Strength	IS 15658
151	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis	IS 2386 (PART I)
152	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (PART III)
153	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (PART III)
154	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Elongation	IS : 1608(Part 1)
155	MECHANICAL- BUILDINGS MATERIALS	steel reinforcement	Ultimate Tensile Strength	IS:1608 (Part 1)
156	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	Weight per unit Length	IS 1786
157	MECHANICAL- BUILDINGS MATERIALS	steel reinforcement	Yield Stress	IS:1608 (Part 1)
158	MECHANICAL- SOIL AND ROCK	Soil	Light compaction (OMC)	IS 2720 (Part VII)
159	MECHANICAL- SOIL AND ROCK	Soil	CBR Value	IS 2720 (Part XVI)
160	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part VIII)
161	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part VIII)
162	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part VII)

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Site Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Dioxide (CO2)	USEPA ALT004 Method 3A
2	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon Monoxide	USEPA ALT004 Method 7E and 10
3	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Nitric oxide (NO)	USEPA ALT004 Method 7E
4	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Nitrogen Dioxide (NO2)	USEPA ALT004 Method 7E
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen	USEPA ALT004 Method 7E
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxygen (O2)	USEPA AL T004 Method 3A
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate Matter	IS 11255 (Part 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulfur Dioxide	USEPA ALT004 Method 6C and 7E