National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ASIAN GEOTECH RESEARCH SERVICES, PLOT NO. 4704/5004, ADIMATA COLONY, BHUBANESWAR, ODISHA, 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	Nitrogen dioxide (NO2)	IS 5182 (Part-6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 10	IS 5182 (part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	PM 2.5	IS 5182 (part 24)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur di Oxide (SO2)	IS 5182 (Part-2)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Meteorological	Ambient Temperature	HTA AVM -06
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Gas	Particulate matter	IS 11255 (Part-1)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Gas	Velocity and flow	IS 11255 (Part 3)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Acidity	IS:3025 (PART-22)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Bio-chemical oxygen demand (BOD)	IS:3025 (PART-44)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Calcium (Ca)	IS:3025 (PART-40)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Chloride	IS:3025 (PART-32)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Chromium (Cr) Total	IS:3025 (PART-52)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Chromium (Cr+6)	IS 3025 (part 52)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluent	Conductivity	IS:3025 (PART-14)
15	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Dissolved oxygen	IS:3025 (PART-38)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Iron (Fe)	IS:3025 (PART-53)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Magnesium (mg)	IS:3025 (PART-46)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	pH	IS:3025 (PART-11)

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Potassium (K)	IS:3025 (PART-45)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Sodium (Na)	IS 3025 (PART-45)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Sulphate	IS:3025 (PART-24)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Temperature	IS:3025 (PART-9)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Total dissolved solids	IS:3025 (PART-16)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent	Turbidity	IS:3025 (PART-10)
25	CHEMICAL- RESIDUES IN WATER	Ground Water	Chromium (Cr) Total	IS:3025 (PART-53)
26	CHEMICAL- RESIDUES IN WATER	Ground Water	Chromium (Cr+6)	IS:3025 (PART-53)
27	CHEMICAL- RESIDUES IN WATER	Ground Water	Iron (Fe)	IS:3025 (PART-53)
28	CHEMICAL- RESIDUES IN WATER	Potable Water	Chromium (Cr) Total	IS 3025 (PART-53)
29	CHEMICAL- RESIDUES IN WATER	Potable Water	Chromium (Cr+6)	IS:3025 (PART-53)
30	CHEMICAL- RESIDUES IN WATER	Potable Water	Iron (Fe)	IS 3025 (PART-53)
31	CHEMICAL- RESIDUES IN WATER	Surface Water	Chromium (Cr) Total	IS:3025 (PART-53)
32	CHEMICAL- RESIDUES IN WATER	Surface Water	Chromium (Cr+6)	IS:3025 (PART-53)
33	CHEMICAL- RESIDUES IN WATER	Surface Water	Iron (Fe)	IS:3025 (PART-53)
34	CHEMICAL- RESIDUES IN WATER	Water for construction purpose	Chromium (Cr) Total	IS 3025 (PART-52)
35	CHEMICAL- RESIDUES IN WATER	Water for construction purpose	Chromium (Cr+6)	IS 3025 (PART-53)
36	CHEMICAL- RESIDUES IN WATER	Water for construction purpose	Iron (Fe)	IS 3025 (PART-53)
37	CHEMICAL- WATER	Ground Water	Acidity	IS:3025 (PART-22)
38	CHEMICAL- WATER	Ground Water	Alkalinity	IS:3025 (PART-23)

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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
39	CHEMICAL- WATER	Ground Water	Bio-chemical oxygen demand (BOD)	IS:3025 (PART-44)
40	CHEMICAL- WATER	Ground Water	Calcium (Ca)	IS:3025 (PART-40)
41	CHEMICAL- WATER	Ground Water	Chemical oxygen demand (COD)	IS:3025 (PART-58)
42	CHEMICAL- WATER	Ground Water	Chloride	IS:3025 (PART-32)
43	CHEMICAL- WATER	Ground Water	Conductivity	IS:3025 (PART-14)
44	CHEMICAL- WATER	Ground Water	Dissolved oxygen	IS:3025 (PART-38)
45	CHEMICAL- WATER	Ground Water	Hardness(total)	IS:3025 (PART-21)
46	CHEMICAL- WATER	Ground Water	Magnesium (mg)	IS:3025 (PART-46)
47	CHEMICAL- WATER	Ground Water	pH	IS:3025 (PART-11)
48	CHEMICAL- WATER	Ground water	Potassium (K)	IS:3025 (PART-45)
49	CHEMICAL- WATER	Ground Water	Sodium (Na)	IS:3025 (PART-45)
50	CHEMICAL- WATER	Ground Water	Sulphate	IS:3025 (PART-24)
51	CHEMICAL- WATER	Ground Water	Temperature	IS:3025 (PART-9)
52	CHEMICAL- WATER	Ground Water	Total dissolved solids	IS:3025 (PART-16)
53	CHEMICAL- WATER	Ground Water	Turbidity	IS:3025 (PART-10)
54	CHEMICAL- WATER	Potable Water	Acidity	IS 3025 (PART-22)
55	CHEMICAL- WATER	Potable Water	Alkalinity	IS 3025 (PART-23)
56	CHEMICAL- WATER	Potable Water	Bio-chemical oxygen demand (BOD)	IS 3025 (PART-44)
57	CHEMICAL- WATER	Potable Water	Calcium (Ca)	IS 3025 (PART-40)
58	CHEMICAL- WATER	Potable Water	Chemical oxygen demand (COD)	IS 3025 (PART-58)
59	CHEMICAL- WATER	Potable Water	Chloride	IS 3025 (PART-32)
60	CHEMICAL- WATER	Potable Water	Conductivity	IS 3025 (PART-14)
61	CHEMICAL- WATER	Potable Water	Dissolved oxygen	IS 3025 (PART-38)
62	CHEMICAL- WATER	Potable Water	Hardness(total)	IS:3025 (PART-21)
63	CHEMICAL- WATER	Potable Water	Magnesium (mg)	IS 3025 (PART-46)
64	CHEMICAL- WATER	Potable Water	pH	IS 3025 (PART-11)
65	CHEMICAL- WATER	Potable Water	Potassium (K)	IS 3025 (PART-45)
66	CHEMICAL- WATER	Potable Water	Sodium (Na)	IS 3025 (PART-45)

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67	CHEMICAL- WATER	Potable Water	Sulphate	IS 3025 (PART-24)
68	CHEMICAL- WATER	Potable Water	Total dissolved solids	IS 3025 (PART-16)
69	CHEMICAL- WATER	Potable Water	Turbidity	IS 3025 (PART-10)
70	CHEMICAL- WATER	Surface Water	Acidity	IS:3025 (PART-22)
71	CHEMICAL- WATER	Surface Water	Alkalinity	IS:3025 (PART-23)
72	CHEMICAL- WATER	Surface Water	Bio-chemical oxygen demand (BOD)	IS:3025 (PART-44)
73	CHEMICAL- WATER	Surface Water	Calcium (Ca)	IS:3025 (PART-40)
74	CHEMICAL- WATER	Surface Water	Chemical oxygen demand (COD)	IS:3025 (PART-58)
75	CHEMICAL- WATER	Surface Water	Chloride	IS:3025 (PART-32)
76	CHEMICAL- WATER	Surface Water	Conductivity	IS:3025 (PART-14)
77	CHEMICAL- WATER	Surface Water	Dissolved oxygen	IS:3025 (PART-38)
78	CHEMICAL- WATER	Surface Water	Hardness(total)	IS:3025 (PART-21)
79	CHEMICAL- WATER	Surface Water	Magnesium (mg)	IS:3025 (PART-46)
80	CHEMICAL- WATER	Surface Water	pH	IS:3025 (PART-11)
81	CHEMICAL- WATER	Surface Water	Potassium (K)	IS:3025 (PART-45)
82	CHEMICAL- WATER	Surface Water	Sodium (Na)	IS:3025 (PART-45)
83	CHEMICAL- WATER	Surface Water	Sulphate	IS:3025 (PART-24)
84	CHEMICAL- WATER	Surface Water	Temperature	IS:3025 (PART-9)
85	CHEMICAL- WATER	Surface Water	Total dissolved solids	IS:3025 (PART-16)
86	CHEMICAL- WATER	surface water	Turbidity	IS:3025 (PART-10)
87	CHEMICAL- WATER	Water for construction purpose	Acidity	IS 3025 (PART-22)
88	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS 3025 (PRT-23)
89	CHEMICAL- WATER	Water for construction purpose	Bio-chemical oxygen demand (BOD)	IS 3025 (PART-44)
90	CHEMICAL- WATER	Water for construction purpose	Calcium (Ca)	IS:3025 (PART-40)
91	CHEMICAL- WATER	Water for construction purpose	Chemical oxygen demand (COD)	IS 3025 (PART-58)
92	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (PART-32)
93	CHEMICAL- WATER	Water for construction purpose	Conductivity	IS 3025 (PART-14)
94	CHEMICAL- WATER	Water for construction purpose	Dissolved oxygen	IS 3025 (PART-38)

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95	CHEMICAL- WATER	Water for construction purpose	Hardness(total)	IS 3025 (PART-21)
96	CHEMICAL- WATER	Water for construction purpose	Magnesium (mg)	IS 3025 (PART-46)
97	CHEMICAL- WATER	Water for construction purpose	pH	IS:3025 (PART-11)
98	CHEMICAL- WATER	Water for construction purpose	Potassium (K)	IS 3025 (PART-45)
99	CHEMICAL- WATER	Water for construction purpose	Sodium (Na)	IS 3025 (PART-45)
100	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (PART-24)
101	CHEMICAL- WATER	Water for construction purpose	Temperature	IS 3025 (PART-9)
102	CHEMICAL- WATER	Water for construction purpose	Total dissolved solids	IS 3025 (PART-16)
103	CHEMICAL- WATER	Water for construction purpose	Turbidity	IS 3025 (PART-10)
104	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Height)	IS 1077 CL. 6.2.1
105	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Length)	IS 1077 CL. 6.2.1
106	MECHANICAL- BUILDINGS MATERIALS	Brick	Dimension (Width)	IS 1077 CL. 6.2.1
107	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS 3495 (Part-1)
108	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 Part-3
109	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 (Part-2)
110	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031(Part-6)
111	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part-4)
112	MECHANICAL- BUILDINGS MATERIALS	Cement	Final setting time	IS 4031(Part-5)
113	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by dry sieving (by 90 micron)	IS 4031 (Part-1)
114	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting time	IS 4031(Part-5)
115	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier Method	IS 4031(Part-3)
116	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	10% Fine Value	IS 2386 (Part-4), Clause 3

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117	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact value	IS 2386 (Part-4), Clause 4
118	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density	IS 2386 (Part-3), Clause 3
119	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	IS 2386 (Part-4), Clause 2
120	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(Part-1)
121	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386(Part-1)
122	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Gradation	IS 2386 (Part-1), Clause 2
123	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angles Abrasion value	IS 2386 (Part-4), Clause 5.3
124	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS 2386 (Part-3), Clause 2.2
125	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Part-3), Clause 2
126	MECHANICAL- BUILDINGS MATERIALS	Concrete (Fresh)	Compressive strength	IS 516
127	MECHANICAL- BUILDINGS MATERIALS	Concrete (Fresh)	Slump Test	IS 1199
128	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk density	IS 2386 (Part-3), Clause 3
129	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Finer than 75 micron	IS 2386 (Part-1), Clause 3
130	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Gradation	IS 2386 (Part-1), Clause 2
131	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 (Part-3), Clause 4.2
132	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386(Part-3), Clause 4.3
133	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement)	% of Elongation	IS 1608
134	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement)	0.2% Proof Stress	IS 1608 (Part - 1 & 3) Clause:13
135	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement)	Tensile Strength	IS 1608

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136	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement)	Unit Weight	IS 1786
137	MECHANICAL- BUILDINGS MATERIALS	Steel (Reinforcement)	Yield Stress	IS 1608
138	MECHANICAL- SOIL AND ROCK	Rock	Point Load test	IS 8764
139	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part-16)
140	MECHANICAL- SOIL AND ROCK	Soil	Free Swelling Index	IS 2720 (Part-40)
141	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction-MDD	IS 2720 (Part-8)
142	MECHANICAL- SOIL AND ROCK	soil	Heavy Compaction-OMC	IS 2720 (Part-8)
143	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction- MDD	IS 2720 (Part-7)
144	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction- OMC	IS 2720 (Part-7)
145	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5)
146	MECHANICAL- SOIL AND ROCK	Soil	Moisture content	IS 2720 (Part-2)
147	MECHANICAL- SOIL AND ROCK	Soil	Particle Size Distribution (Dry Sieve)	IS 2720 (Part-4)
148	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5)
149	MECHANICAL- SOIL AND ROCK	Soil	Specific gravity	IS 2720 (Part-3)-Sec 1& 2

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Clay & Soil	Electrical Resistivity Test	IS 3043 Clause 40
2	MECHANICAL- SOIL AND ROCK	Soil	Dry Density of soil by Core Cutter Method	IS 2720 (Part-29)
3	MECHANICAL- SOIL AND ROCK	Soil	Dry Density of soil by sand Replacement	IS 2720 (Part-28) Section 1 & 2
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Ultrasonic Pulse Velocity Testing	IS 516 (Part-5)/Sec-1
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structures	Rebound Hammer Testing	IS 516 (Part-5)/Sec-4