National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : REGIONAL RESEARCH & ANALYTICAL LABORATORY (A DIVISION OF AEIPL), KOVVADA ANNAVARAM, BHIMAVARAM, WEST GODAVARI, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 16/12/2022 to 15/12/2024 **Last Amended on** -

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	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Coliforms	BAM (8th Edition) Chapter 4
2	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Coliforms	BAM (8th Edition) Chapter 4 BY MPN
3	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	E.coli	BAM (8th Edition) Chapter 4 BY MPN
4	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	E.coli	IS 5887-1
5	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Listeria monocytogenes	BAM (8th Edition) Chapter 10
6	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Salmonella	BAM (8th Edition) Chapter 5
7	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Staphylococcus aureus	BAM (8th Edition) Chapter 12
8	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Staphylococcus aureus	BAM (8th Edition) Chapter 12
9	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Total Plate Count	BAM (8th Edition) Chapter 3
10	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Vibrio Cholerae	BAM (8th Edition) Chapter 9
11	BIOLOGICAL- MARINE /AQUA CULTURE FOOD PRODUCTS	Prawn & Prawn Products / Fish & Fishery Products / Shrimp	Vibrio Parahaemolyticus	BAM (8th Edition) Chapter 9
12	BIOLOGICAL- WATER	Ground Water / Surface Water	Clostridium perfringens	ISO 14189
13	BIOLOGICAL- WATER	Ground Water / Surface Water	Coliforms	IS 15185
14	BIOLOGICAL- WATER	Ground Water / Surface Water	E.coli	IS 15185
15	BIOLOGICAL- WATER	Ground Water / Surface Water	Enterococci	IS 15186
16	BIOLOGICAL- WATER	Ground Water / Surface Water	Pseudomonas aeurginosa	ISO 16266

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17	BIOLOGICAL- WATER	Ground Water / Surface Water	Total plate count at 22 C, 72 hrs Enumeration	IS 5402
18	BIOLOGICAL- WATER	Ground Water / Surface Water	Total plate count at 37 C, 48 hrs	IS 5402
19	BIOLOGICAL- WATER	Ground Water / Surface Water	Vibrio Cholerae	IS 5887 (Part 5)
20	BIOLOGICAL- WATER	Ground Water / Surface Water	Vibrio parahaemolyticus	IS 5887 (Part 5)
21	BIOLOGICAL- WATER	Water for Processed Food Industry as per specification of IS 4251:1967	Coliforms	IS 1622
22	BIOLOGICAL- WATER	Water for Processed Food Industry as per specification of IS 4251:1967	Standard Plate Count	IS 1622
23	BIOLOGICAL- WATER	Water for Processing	Clostridium perfringens	ISO 14189
24	BIOLOGICAL- WATER	Water for Processing	E.coli	IS 15185
25	BIOLOGICAL- WATER	Water for Processing	Enterococci	ISO 7899 (Part - 2)
26	BIOLOGICAL- WATER	Water for Processing	Pseudomonas aeruginosa	ISO 16266
27	BIOLOGICAL- WATER	Water for Processing	Total plate count at 22 C, 72 hrs	ISO 6222
28	BIOLOGICAL- WATER	Water for Processing	Total plate count at 22 C, 72 hrs Enumeration	IS 5402
29	BIOLOGICAL- WATER	Water for Processing	Total Plate Count at 37 C, 24 hrs Enumeration	IS 1622
30	BIOLOGICAL- WATER	Water for Processing	Total Plate Count at 37 C,48 hrs	ISO 6222
31	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Ammonical Nitrogen as NH3	IS 3025 (Part 34); phenate method
32	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Ammonical Nitrogen NH3	APHA 23rd Edition 4500 F; phenate method
33	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Biochemical Oxygen Demand (BOD) 3 Days @ 27 Degree Celsius	IS 3025 (Part 44)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Biochemical Oxygen Demand (BOD) 5 Days @ 20 Degree Celsius	APHA 23rd Edition 5210 B
35	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Boron as B	APHA 23rd Edition 4500 B; curcumin method
36	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Boron as B	IS 3025 (Part 57);curcumin method

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37	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Chemical Oxygen Demand (COD)	APHA 23rd Edition 5220 B
38	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Chlorides	APHA 23rd Edition 4500 Cl B; Argenometric Method
40	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Chlorides	IS 3025 (Part 32); Argenometric Method
41	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Chlorine (Residual)	APHA 23rd Edition 4500 Cl G; Colorimetric Method
42	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Chlorine (Residual)	IS 3025 (Part 26); Colorimetric Method
43	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Conductivity	APHA 23rd Edition 2510 B
44	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Conductivity	IS 3025 (Part 14)
45	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Dissolved Oxygen (DO)	APHA 23rd Edition 4500 C; Azide Modification
46	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Dissolved Oxygen (DO)	IS 3025 (Part 38); Titrimetric
47	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Oil & Grease	APHA 23rd Edition 5520 B:Liquid-Liquid, Partition-Gravimetric Method
48	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Oil & Grease	IS 3025 (Part 39):Liquid-Liquid, Partition-Gravimetric Method
49	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	pH	APHA 23rd Edition 4500 H+ B
50	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	pH	IS 3025 (Part 11)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Phosphorous as P	APHA 23rd Edition 4500 P C; Vanadomolybdophosphoric Acid Colorimetric Method
52	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Phosphorous as P	IS 3025 (Part 31); Vanadomolybdophosphoric Acid Colorimetric Method
53	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Residual Sodium Carbonate	IS 11624
54	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Salinity	APHA 23rd Edition 2520 B

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55	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Sulphate as SO4	APHA 23rd Edition 4500 SO4 E:Turbidity method
56	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Sulphate as SO4	IS 3025 (Part 24):Turbidity method
57	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Sulphide as H2S	APHA 23rd Edition 4500 S D:methylene blue Method
58	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Sulphide as H2S	IS 3025 (Part 29):methylene blue Method
59	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Total Dissolved Solids	APHA 23rd Edition 2540 C
60	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Total Dissolved Solids	IS 3025 (Part 16)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Total Suspended Solids	APHA 23rd Edition 2540 D
62	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid effluents, Waste water, Effluents, ETP water, STP water, Treated effluent water	Total Suspended solids	IS 3025 (Part 17)
63	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Dyes: Leucomalachite green	RRAL/SOP/RA/10 Issue. 01 December 18
64	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Dyes: Crystal Violet	RRAL/SOP/RA/10 Issue. 01 December 18
65	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Dyes: Leuco Crystal Violet	RRAL/SOP/RA/10 Issue. 01 December 18
66	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Dyes: Malachite green	RRAL/SOP/RA/10 Issue. 01 December 18
67	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Moisture	IS 14950
68	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Parent Compounds : Furaltadone	RRAL/SOP/RA/06 Issue. 01 December 18
69	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Parent Compounds : Furazolidone	RRAL/SOP/RA/06 Issue. 01 December 18
70	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Parent Compounds : Nitrofurazone	RRAL/SOP/RA/06 Issue. 01 December 18
71	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Parent Compounds :Nitrofurantoin	RRAL/SOP/RA/06 Issue. 01 December 18.
72	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones: Ciprofloxacin	RRAL/SOP/RA/08 Issue. 01 December 18
73	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones: Danofloxacin	RRAL/SOP/RA/08 Issue. 01 December 18

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74	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones: Diflaxacin	RRAL/SOP/RA/08 Issue. 01 December 18
75	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones: Enrofloxacin	RRAL/SOP/RA/08 Issue. 01 December 18
76	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones: Flume quinine	RRAL/SOP/RA/08 Issue. 01 December 18
77	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones: Sarafloxacin	RRAL/SOP/RA/08 Issue. 01 December 18.
78	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sodium chloride	IS 14950
79	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Metabolites: AMOZ	SOP No.RRAL/SOP/RA/02 Issue,01 January 05
80	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Arsenic	SOP No.RRAL/SOP/RA/05 Issue.01 August 05
81	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Cadmium	SOP No.RRAL/SOP/RA/05 Issue.01 August 05
82	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Chloramphenicol	RRAL/SOP/RA/01 Issue. 01 January 05
83	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Lead	SOP No.RRAL/SOP/RA/05 Issue.01 August 05
84	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Mercury	SOP No.RRAL/SOP/RA/05 Issue.01 August 05
85	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	MOISTURE	AOAC 950.46
86	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Metabolites: AHD	SOP No.RRAL/SOP/RA/02 Issue,01 January 05
87	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Metabolites: AOZ	SOP No.RRAL/SOP/RA/02 Issue,01 January 05
88	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Nitrofuran Metabolites: SEM	SOP No.RRAL/SOP/RA/02 Issue,01 January 05
89	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	PHOSPHATE	AOAC 969.31
90	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Phosphate	RRAL/SOP/RA/12 Issue. 01 December 18
91	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones Nalidixic Acid	RRAL/SOP/RA/08 Issue. 01 December 18
92	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones oxalinic acid	RRAL/SOP/RA/08 Issue. 01 December 18

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93	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Quinolones:Norfloxacin	RRAL/SOP/RA/08 Issue. 01 December 18
94	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	SALT as NaCL	AOAC 937.09
95	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	SODIUM as Na	AOAC 969.23
96	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfa pyridine(SPD)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
97	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfachloropyridazine (SCP)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
98	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfadiazine (SDZ)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
99	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfadimethoxine (SDM)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
100	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfadoxine (SD)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
101	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfamerazine (SMR)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
102	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfamethazine (SMT)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
103	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfamethizole (SMTZ)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
104	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfamethoxazole (SMTX)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
105	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfamethoxypyridazine (SMP)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
106	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Sulfonamides: Sulfathiazole (STZ)	SOP No.RRAL/SOP/RA/03 Issue.01 January 05
107	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines : 4-Epitetracycline	RRAL/SOP/RA/07 Issue. 01 December 18
108	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines: : 4-Epichlortetracycline	RRAL/SOP/RA/07 Issue. 01 December 18
109	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines: 4-Epioxytetracycline	RRAL/SOP/RA/07 Issue. 01 December 18
110	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines: Chlortetracycline	RRAL/SOP/RA/07 Issue. 01 December 18
111	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines: Doxycycline	RRAL/SOP/RA/07 Issue. 01 December 18

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112	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines: Oxytetracycline	RRAL/SOP/RA/07 Issue. 01 December 18
113	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Tetracyclines: Tetracycline	RRAL/SOP/RA/07 Issue. 01 December 18
114	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Fish & Fishery products /Prawn & Prawn products/ Shrimps	Total Volatile Base Nitrogen	RRAL/SOP/RA/11 Issue. 01 December 18
115	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Aluminium	APHA 23rd Edition 3125 B
116	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Antimony	APHA 23rd Edition 3125 B
117	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Arsenic	APHA 23rd Edition 3125 B
118	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Barium	APHA 23rd Edition 3125 B
119	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Boron	APHA 23rd Edition 3120 B; curcumin method
120	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Cadmium	APHA 23RD Edition 3125 B
121	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Chromium	APHA 23rd Edition 3125 B
122	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Copper	APHA 23rd Edition 3125 B
123	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Iron	APHA 23rd Edition 3120 B
124	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Lead	APHA 23rd Edition 3125 B
125	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Manganese	APHA 23rd Edition 3125 B
126	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Mercury	APHA 22rd Edition 3125 B
127	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Molybdenum	APHA 23rd Edition 3125 B
128	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Nickel	APHA 23rd Edition 3125 B
129	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Selenium	APHA 23rd Edition 3125 B
130	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Silver	APHA 23rd Edition 3125 B

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131	CHEMICAL- RESIDUES IN WATER	Drinking Water, Packaging Drinking Water, Surface Water, Ground Water, RO Water	Zinc	APHA 23rd Edition 3125 B
132	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Dissolved Solids	APHA 23rd Edition 2540 C
133	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Acidity as CaCO3	APHA 23rd Edition,2310 B:
134	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Acidity as CaCO3	IS:3025(Part-22):
135	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Ammonia as NH3-N	APHA-23rd Edition 4500 F; phenate method
136	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Ammonia as NH3-N	IS 3025 (Part-34); phenate method
137	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Bicarbonates as HCO3	APHA 23Edition 2320 B
138	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Bicarbonates as HCO3	IS:3025 (Part-23)
139	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Biochemical Oxygen demand(BOD) 3 days @ 27 Degree Celsius	IS:3025 (P-44):
140	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Biochemical Oxygen demand(BOD) 5 Days @ 20 Degree Celsius	ALPA-23rd Edition,5210 B
141	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Boron as B	APHA 23rd Edition,4500 B; curcumin method
142	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Boron as B	IS:3025 (Part-57); curcumin method
143	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Calcium as Ca	APHA 23rd Edition 3500-Ca B:Titrimetric
144	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Calcium as Ca	IS:3025(part-40):Titrimetric
145	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Carbonates as CO3	APHA 23rd Edition 2320 B
146	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Carbonates as CO3	IS:3025(Part-23)
147	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Chemical Oxygen Demand(COD)	APHA 23rd Edition,5220B
148	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Chemical Oxygen Demand(COD)	IS:3025(P-58):
149	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Chloride as Cl	4500-Cl-B APHA 23rd Edition; Argenometric Method
150	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Chloride as Cl	IS:3025(Part-32); Argenometric Method
151	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Chlorine (Residual)	IS:3025(Part-26:); Colorimetric Method

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152	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Chlorine(residual)	APHA 23rd Edition,4500-Cl,G; Colorimetric Method
153	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Color	IS 3025 (Part 4):Platinum cobalt (visual-comparison)
154	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Conductivity	APHA 23rd Edition 2510 B
155	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Conductivity	IS 3025 (Part 14)
156	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Dissolved Oxygen(DO)	APHA-23rd Edition 4500- O-C ; Azide Modification
157	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Dissolved Oxygen(DO)	IS 3025(Part-38:); Titrimetric
158	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Fixed Solids	IS:3025(Part-18):
159	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Fixes Solds	APHA 23rd Edition,2540 E
160	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Fluoride as F	4500-F D,APHA 23rd Edition
161	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Iron as Fe	3500-Fe-B,APHA 23rd Edition
162	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Iron as Fe	IS:3025 (Part-53)
163	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Magnesium as Mg	IS:3025(Part-46)
164	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Megnesium as Mg	APHA 23rd Edition,3500-Mg B
165	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Nitrate as NO3-N	APHA 23rd Edition4500-NO3 B
166	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Nitrite as NO2-N	4500-NO2 B,APHA 23rd Edition
167	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Nitrite as NO2-N	IS:3025(Part-34)
168	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Odor	IS 3025 (Part 5)
169	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	pH	APHA 23rd Edition 4500 H+ B; Electrometric. Method
170	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	pH	IS 3025 (Part 11)
171	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Phosphorous as P	APHA 23rd Edition,4500-C; Vanadomolybdophosphoric Acid Colorimetric Method
172	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Phosphorous as P	IS:3025 (Part-31); Vanadomolybdophosphoric Acid Colorimetric Method
173	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Potassium as K	APHA 23rd Edition 3500-K B
174	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Potassium as K	IS:3025(Part-45)
175	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Potassium Permanganate (Oxidisability)	APHA 23rd Edition,4500-Kmno4 B :Spectrophotometric method

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176	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Salinity	APHA 23rd Edition ,2520 B
177	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Silica as SiO2	APHA 23rd Edition,4500-Sio2-C; Molybdosilicate Method
178	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Silica as SiO2	IS:3025(Part-35):; Molybdosilicate Method
179	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Sodium as Na	APHA 23rd Edition,3500-Na B
180	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Sodium as Na	IS:3025 (Part-45)
181	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Sulphate as SO4	4500-SO4-E APHA 23rd Edition:Turbidity method
182	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Sulphate as SO4	IS:3025(Part-24):Turbidity method
183	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Sulphide as H2S	APHA 23rd Edition,4500-S2 D:methylene blue Method
184	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Sulphide as H2S	IS:3025(Part-29)::methylene blue Method
185	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Alkalinity(M-Alkalinity) as CaCO3	APHA 23rd Edition 2320 B:Titrimetric
186	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Alkalinity(M-Alkalinity) as CaCO3	IS:3025(Part-23):Titrimetric
187	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Dissolved Solids	IS 3025 (Part 16)
188	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Hardnes as CaCO3	APHA 23rd Edition,2340 C
189	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Hardnes as CaCO3	IS:3025(Part-21)
190	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Solids	APHA 23rd Edition,2540 B
191	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Total Solids	IS:3025(Part-15:)
192	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Turbidity	APHA 23rd Edition 2130 B
193	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Turbidity	IS 3025 (Part 10)
194	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Volatile Solids	APHA 23rd Edition,2540 E
195	CHEMICAL- WATER	Ground Water, Surface Water, Pond Water	Volatile Solids	IS:3025(Part-18):
196	CHEMICAL- WATER	Ground Water,Surface Water,Pond Water	Color	APHA 23rd Edition 2120 B
197	CHEMICAL- WATER	Portable Water,Drinking Water	Ammonia as NH3-N	APHA 23rd Edition,4500F; phenate method
198	CHEMICAL- WATER	Portable Water,Drinking Water	Ammonia as NH3-N	IS:3025(Part-34); phenate method
199	CHEMICAL- WATER	Portable Water,Drinking Water	Bicarbonates as HCO3	APHA 23rd Edition,2320 B

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200	CHEMICAL- WATER	Portable Water,Drinking Water	Bicarbonates as HCO3	IS:3025 (Part 23)
201	CHEMICAL- WATER	Portable Water,Drinking Water	Boron as B	APHA 23rd Edition,4500 B; curcumin method
202	CHEMICAL- WATER	Portable Water,Drinking Water	Boron as B	IS:3025(Part-57); curcumin method
203	CHEMICAL- WATER	Portable Water,Drinking Water	Calcium as Ca	APHA 23rd Edition,3500-Ca B:Titrimetric
204	CHEMICAL- WATER	Portable Water,Drinking Water	Calcium as Ca	IS:3025(Part-40):Titrimetric
205	CHEMICAL- WATER	Portable Water,Drinking Water	Carbonate as CO3	APHA 23rd Edition,2320 B
206	CHEMICAL- WATER	Portable Water,Drinking Water	Carbonates as CO3	IS:3025 (Part 23)
207	CHEMICAL- WATER	Portable Water,Drinking Water	Chloride as Cl	APHA 23rd Edition ,4500-Cl-B; Argenometric Method
208	CHEMICAL- WATER	Portable Water,Drinking Water	Chloride as Cl	IS:3025 (Part 32); Argenometric Method
209	CHEMICAL- WATER	Portable Water,Drinking Water	Color	APHA 23rd Edition ,2120B:visual comparison method
210	CHEMICAL- WATER	Portable Water,Drinking Water	Color	IS:3025(Part-4):Platinum cobalt (visual-comparison)
211	CHEMICAL- WATER	Portable Water,Drinking Water	Conductivity	APHA 23rd Edition,2510 B
212	CHEMICAL- WATER	Portable Water,Drinking Water	Conductivity	IS 3025 (Part 14):
213	CHEMICAL- WATER	Portable Water,Drinking Water	Flouride as F	APHA 23rd Edition ,4500-F;D
214	CHEMICAL- WATER	Portable Water,Drinking Water	Iron as a Fe	APHA 23rd Edition,3500-Fe-B
215	CHEMICAL- WATER	Portable Water,Drinking Water	Iron as Fe	IS:3025(Part-53):
216	CHEMICAL- WATER	Portable Water,Drinking Water	Magnesium as Mg	APHA 23rd Edition,3500-Mg B
217	CHEMICAL- WATER	Portable Water,Drinking Water	Magnesium as Mg	IS:3025 (Part-46)
218	CHEMICAL- WATER	Portable Water,Drinking Water	Nitrate as NO3	APHA 22nd Edition,4500-NO3 B
219	CHEMICAL- WATER	Portable Water,Drinking Water	Nitrite as NO2	APHA 23rd Edition 4500-NO2 B:
220	CHEMICAL- WATER	Portable Water,Drinking Water	Nitrite as NO2	IS:3025 (Part 34)
221	CHEMICAL- WATER	Portable Water,Drinking Water	Odor	IS:3025(Part-5):
222	CHEMICAL- WATER	Portable Water,Drinking Water	pH	APHA 23rd Edition,4500 -H+B:; Electrometric. Method
223	CHEMICAL- WATER	Portable Water,Drinking Water	pH	IS 3025 (Part 11)
224	CHEMICAL- WATER	Portable Water,Drinking Water	Potassium as K	APHA 23rd Edition,3500-K B

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225	CHEMICAL- WATER	Portable Water,Drinking Water	Pottasium as K	IS:3025(Part-45)
226	CHEMICAL- WATER	Portable Water,Drinking Water	Sodium as Na	APHA 23rd Edition,3500-Na B
227	CHEMICAL- WATER	Portable Water,Drinking Water	Sodium as Na	IS:3025 (Part 45)
228	CHEMICAL- WATER	Portable Water,Drinking Water	Sulphate as SO4	APHA 23rd Edition ,4500-SO4-E:Turbidity method
229	CHEMICAL- WATER	Portable Water,Drinking Water	Sulphate as SO4	IS:3025 (Part 24):Turbidity method
230	CHEMICAL- WATER	Portable Water,Drinking Water	Total Alkalinity(M-Alkalinity) as CaCO3	APHA 23rd Edition,2320 B:Titrimetric
231	CHEMICAL- WATER	Portable Water,Drinking Water	Total Alkalinity(M-Alkalinity) as CaCO3	IS:3025 (Part-23):Titrimetric
232	CHEMICAL- WATER	Portable Water,Drinking Water	Total Dissolved Solids	APHA 23rd Edition 2540 C:
233	CHEMICAL- WATER	Portable Water,Drinking Water	Total Dissolved Solids	IS:3025(Part-16):
234	CHEMICAL- WATER	Portable Water,Drinking Water	Total Hardness as CaCO3	APHA 23rd Edition,2340 C
235	CHEMICAL- WATER	Portable Water,Drinking Water	Total Hardness as CaCO3	IS:3025 (Part 21)
236	CHEMICAL- WATER	Portable Water,Drinking Water	Turbidity	APHA 23rd Edition ,2130B
237	CHEMICAL- WATER	Portable Water,Drinking Water	Turbidity	IS 3025 (Part 10)
238	CHEMICAL- WATER	Water for food industry	Iron as Fe	IS:3025(Part-53)
239	CHEMICAL- WATER	Water for food industry	Nitrate as NO3	APHA 22nd Edition,4500-NO3 B
240	CHEMICAL- WATER	Water for food industry	Total Hardness as CaCO3	APHA 23rd Edition,2340 C
241	CHEMICAL- WATER	Water for food industry	Ammonia as NH3-N	APHA 23rd Edition,4500F; phenate method
242	CHEMICAL- WATER	Water for food industry	Ammonia as NH3-N	IS:3025(Part-34); phenate method
243	CHEMICAL- WATER	Water for food industry	Bicarbonates as HCO3	APHA 23rd Edition,2320 B
244	CHEMICAL- WATER	Water for food industry	Bicarbonates as HCO3	IS:3025 (Part 23)
245	CHEMICAL- WATER	Water for food industry	Boron as B	APHA 23rd Edition,4500 B; curcumin method
246	CHEMICAL- WATER	Water for food industry	Boron as B	IS:3025(Part-57); curcumin method
247	CHEMICAL- WATER	Water for food industry	Calcium as Ca	APHA 23rd Edition,3500-Ca B:Titrimetric
248	CHEMICAL- WATER	Water for food industry	Calcium as Ca	IS:3025(Part-40):Titrimetric
249	CHEMICAL- WATER	Water for food industry	Carbonate as CO3	APHA 23rd Edition,2320 B

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250	CHEMICAL- WATER	Water for food industry	Carbonates as CO3	IS:3025 (Part 23)
251	CHEMICAL- WATER	Water for food industry	Chloride as Cl	APHA 23rd Edition ,4500-Cl-B; Argenometric Method
252	CHEMICAL- WATER	Water for food industry	Chloride as Cl	IS:3025 (Part 32); Argenometric Method
253	CHEMICAL- WATER	Water for food industry	Color	APHA 23rd Edition ,2120B
254	CHEMICAL- WATER	Water for food industry	Color	IS:3025(Part-4):Platinum cobalt (visual-comparison)
255	CHEMICAL- WATER	Water for food industry	Conductivity	APHA 23rd Edition,2510 B
256	CHEMICAL- WATER	Water for food industry	Conductivity	IS 3025 (Part 14)
257	CHEMICAL- WATER	Water for food industry	Flouride as F	APHA 23rd Edition ,4500-F;D
258	CHEMICAL- WATER	Water for food industry	Iron as a Fe	APHA 23rd Edition,3500-Fe-B
259	CHEMICAL- WATER	Water for food industry	Magnesium as Mg	APHA 23rd Edition,3500-Mg B
260	CHEMICAL- WATER	Water for food industry	Magnesium as Mg	IS:3025 (Part-46)
261	CHEMICAL- WATER	Water for food industry	Nitrite as NO2	APHA 23rd Edition 4500-NO2 B
262	CHEMICAL- WATER	Water for food industry	Nitrite as NO2	IS:3025 (Part 34)
263	CHEMICAL- WATER	Water for food industry	Odor	IS:3025(Part-5)
264	CHEMICAL- WATER	Water for food industry	pH	APHA 23rd Edition,4500 -H+B; Electrometric. Method
265	CHEMICAL- WATER	Water for food industry	pH	IS 3025 (Part 11)
266	CHEMICAL- WATER	Water for food industry	Potassium as K	APHA 23rd Edition,3500-K B
267	CHEMICAL- WATER	Water for food industry	Pottasium as K	IS:3025(Part-45)
268	CHEMICAL- WATER	Water for food industry	Sodium as Na	APHA 23rd Edition,3500-Na B
269	CHEMICAL- WATER	Water for food industry	Sodium as Na	IS:3025 (Part 45)
270	CHEMICAL- WATER	Water for food industry	Sulphate as SO4	APHA 23rd Edition ,4500-SO4-E:Turbidity method
271	CHEMICAL- WATER	Water for food industry	Sulphate as SO4	IS:3025 (Part 24):Turbidity method
272	CHEMICAL- WATER	Water for food industry	Total Alkalinity(M-Alkalinity) as CaCO3	APHA 23rd Edition,2320 B:Titrimetric
273	CHEMICAL- WATER	Water for food industry	Total Alkalinity(M-Alkalinity) as CaCO3	IS:3025 (Part-23):Titrimetric
274	CHEMICAL- WATER	Water for food industry	Total Dissolved Solids	APHA 23rd Edition 2540 C
275	CHEMICAL- WATER	Water for food industry	Total Dissolved Solids	IS:3025(Part-16)

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276	CHEMICAL- WATER	Water for food industry	Total Hardness as CaCO3	IS:3025 (Part 21)
277	CHEMICAL- WATER	Water for food industry	Turbidity	APHA 23rd Edition ,2130B
278	CHEMICAL- WATER	Water for food industry	Turbidity	IS 3025 (Part 10)