National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VASANTDADA SUGAR INSTITUTE'S TESTING LABORATORIES, VASANTDADA SUGAR INSTITUTE, MANJARI (BK), TAL. HAVELI, PUNE, MAHARASHTRA, 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	Air	Particulate Matter less than 10 µm (PM10)	USEPA Appendix J to Part 50 (40 CFR)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Air	Particulate Matter less than 2.5 µm (PM2.5)	USEPA Appendix L to Part 50 (40 CFR) / CPCB Manual
3	CHEMICAL- ATMOSPHERIC POLLUTION	Air	Sulfur Dioxide (SO2)	IS: 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Nitrogen Dioxide (NO2)	IS: 5182 (Part 6)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Noise Level (Leq) (Ambient)	IS : 9989
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Gases	Sulfur Dioxide(SO2)	IS :11255 (Part-2)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Suspended particulate matter	Suspended particulate matter (SPM)	EPA Method 5
8	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Beer	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
9	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ethanol Anhydrous	Alcohol Content (at 20 degree C)	AOAC Official method, 21th Edition, 982.10, Volume-II
10	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ethanol Anhydrous	Aldehyde as acetaldehyde	IS 6613 (ANNEX A)
11	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ethanol Anhydrous	Methanol content (By GC)	IS 15464 (ANNEX J)
12	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ethanol Anhydrous	Residue on evaporation	IS 15464 (ANNEX E)
13	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ethanol Anhydrous	Specific Gravity (at 20 degree C)	AOAC Official method, 21th Edition, 982.10, Volume-II
14	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ethanol Anhydrous	Total Acidity	IS 15464 (ANNEX D)
15	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Alcohol Content (at 20 degree C)	AOAC Official method, 21th Edition, 982.10, Volume-II

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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
16	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Aldehyde as acetaldehyde	IS 6613 (ANNEX A)
17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Ester as ethyl acetate	IS 323 (ANNEX G)
18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Methanol content (By GC)	IS 6613/3752 (16.2)
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Residue on evaporation	IS 323 (ANNEX E)
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Specific Gravity (at 20 degree C)	AOAC Official method, 21th Edition, 982.10, Volume-II
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Extra Neutral Alcohol	Total Acidity	IS 323 (ANNEX D)
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fortified Wines	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Fortified Wines	Volatile Acidity	IS 7585 (Clause 5.3)
24	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL- Vodka	Residue on evaporation	IS 3752 (Clause 5)
25	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Brandy	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
26	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Brandy	Aldehyde as acetaldehyde	IS 3752 (Clause 12)
27	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Brandy	Ester as ethyl acetate	IS 3752 (Clause 10)
28	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Brandy	Methanol Content (By GC)	VSITL/04/SOP/04(f): 2015
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Brandy	Residue on evaporation	IS 3752 (Clause 5)

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30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Brandy	Volatile Acidity	IS 3752 (Clause 8)
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Gin	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Gin	Aldehyde as acetaldehyde	IS 3752 (Clause 12)
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Gin	Ester as ethyl acetate	IS 3752 (Clause 10)
34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Gin	Methanol content (By GC)	VSITL/04/SOP/04(f): 2015
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Gin	Residue on evaporation	IS 3752 (Clause 5)
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Gin	Volatile Acidity	IS 3752 (Clause 8)
37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Rum	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Rum	Aldehyde as acetaldehyde	IS 3752 (Clause 12)
39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Rum	Ester as ethyl acetate	IS 3752 (Clause 10)
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Rum	Methanol content (By GC)	VSITL/04/SOP/04(f): 2015
41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Rum	Residue on evaporation	IS 3752 (Clause 5)
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Rum	Volatile Acidity	IS 3752 (Clause 8)
43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Vodka	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)

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44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Vodka	Aldehyde as acetaldehyde	IS 3752 (Clause 12)
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Vodka	Ester as ethyl acetate	IS 3752 (Clause 10)
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Vodka	Methanol content (By GC)	VSITL/04/SOP/04(f): 2015
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Vodka	Volatile Acidity	IS 3752 (Clause 8)
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Whisky	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Whisky	Aldehyde as acetaldehyde	IS 3752 (Clause 12)
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Whisky	Ester as ethyl acetate	IS 3752 (Clause 10)
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Whisky	Methanol content (By GC)	VSITL/04/SOP/04(f): 2015
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Whisky	Residue on evaporation	IS 3752 (Clause 5)
53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	IMFL-Whisky	Volatile Acidity	IS 3752 (Clause 8)
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	Conductivity Ash	ICUMSA method GS2/3/9-17
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	ICUMSA Colour	ICUMSA method GS2/3-10
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	ICUMSA Colour	ICUMSA method GS2/3-9
57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	ICUMSA Colour	ICUMSA method GS9/1/2/3-8

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58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	Insoluble Matter	ICUMSA method GS2/3/9-19
59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	Polarization	ICUMSA method GS2/3-1
60	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	Reducing Sugar %	ICUMSA method GS2/9-6
61	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	Sugar Moisture by Loss on drying	ICUMSA method GS2/1/3/9-15
62	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plantation white sugar	Sulphite (SO2 Content)	ICUMSA method GS2/1/7/9-33
63	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Raw Sugar	Conductivity Ash %	ICUMSA method GS1/1/3/9-1
64	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Raw Sugar	ICUMSA Colour	ICUMSA method GS1/3-7
65	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Raw Sugar	Polarization	ICUMSA method GS1/1/3/9-1
66	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Alcohol Content @ 20 Degree C	AOAC official method, 21th edition, 982.10, Volume-II
67	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Aldehyde as acetaldehyde	IS 6613 (ANNEX A)
68	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Ester as ethyl acetate	IS 323 (ANNEX G)
69	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Methanol content (By GC)	IS 323 (ANNEX H 2)
70	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Residue on Evaporation	IS 323 (ANNEX E)
71	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Specific Gravity (at 20 C)	AOAC Official method, 21th Edition, 982.10, Volume-II

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72	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rectified Spirit	Total Acidity	IS 323 (ANNEX D)
73	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Table Wines	Alcohol Content (at 20 degree C)	ASBC (Volume 64/4, pp.242)
74	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Table Wines	Volatile Acidity	IS 7585 (Clause 5.3)
75	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Carbonate Alkalinity	APHA 23rd Ed. (2320B)
76	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Dissolved Oxygen	APHA 23rd Ed.(4500 – O, B)
77	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Fluoride as F	APHA 23rd Ed. (4500- F – B, D)
78	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Sulphate as SO4	APHA 23rd Ed. (4500- SO4 2- C, E)
79	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Total Alkalinity (as CaCO3)	IS 3025(Part 23)
80	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Total Dissolved Solid	IS 3025 (Part 16)
81	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Total Dissolved Solid	APHA 23rd Ed. (2540C)
82	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Total Fixed Solids	APHA 23rd Ed. (2540-E)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Total Solids	APHA 23rd Ed. (2540 B)
84	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent and Sewage	Total Volatile Solids	APHA 23rd Ed. (2540-E)
85	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Acidity as CaCO3	IS 3025 (Part 22)
86	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Ammonia as NH3	APHA 23rd Ed. (4500 - NH3, F)
87	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Bicarbonate Alkalinity	APHA 23rd Ed. (2320B)
88	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Bio Chemical Oxygen Demand at 27°C for 3days	IS :3025(Part 44): 1993(RA:2019)
89	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Cadmium as Cd	APHA 23rd Ed. (3111B)

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90	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Calcium as Ca	APHA 23rd Ed. (3500, Ca, B)
91	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Chemical Oxygen Demand (COD)	IS :3025 (Part 58)
92	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Chloride as Cl	APHA 23rd Ed. (4500 Cl– B, D)
93	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Chromium as Cr	APHA 23rd Ed.(3111B)
94	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Colour	APHA 23rd Ed (2120 B Page 2-6)
95	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Conductivity @ 25°C	APHA 23rd Ed. (2510 B)
96	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Copper as Cu	APHA 23rd Ed. (3111B)
97	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Iron as Fe	APHA 23nd Ed. (3111B)
98	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Kjeldahl Nitrogen as N	APHA 23rd Ed. (4500 –Norg, B)
99	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Lead (Pb)	APHA 23rd Ed. (3111B)
100	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Magnesium as Mg	APHA 23rd Ed. (3500, Mg, B)
101	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Manganese (Mn)	APHA 23rd Ed. (3111B)
102	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Nickel (Ni)	APHA 23rd Ed. (3111B)
103	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Oil & Grease (Gravimetric method)	IS :3025 (Part 39)
104	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	pH@25oC	APHA 23rd Ed. (4500-H +B)
105	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Phosphate as P	APHA 23rd Ed. (4500 –P, D)
106	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Potassium (K)	APHA 23rd Ed. (3500 – K -B)
107	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Residual chlorine	APHA 23rd Ed. (4500 Cl-B)
108	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Sodium (Na)	APHA 23rd Ed. (3500- Na, B)

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109	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Temperature	IS: 3025 (Part 9)
110	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Total Suspended Solids	APHA 23rd Ed. (2540D)
111	CHEMICAL- POLLUTION & ENVIRONMENT	Effluents and Sewage	Zinc as Zn	APHA 23rd Ed. (3111B)
112	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Ammonia as NH3	APHA 23rd Ed. (4500 - NH3, F)
113	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Bio Chemical Oxygen Demand at 27°C for 3days	IS :3025 (Part 44)
114	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, semi solid	Cadmium as Cd	APHA 23rd Ed. (3111B)
115	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Chemical Oxygen Demand (COD)	IS :3025 (Part 58)
116	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, semi solid	Chromium as Cr	APHA 23rd Ed. (3111B)
117	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Colour	APHA 23rd Ed. (2120 Page 2-6)
118	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, semi solid	Copper as Cu	APHA 23rd Ed. (3111B)
119	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, semi solid	Iron as Fe	APHA 23rd Ed. (3111B)
120	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Kjeldahl Nitrogen as N	APHA 23rd Ed. (4500 –Norg, B)
121	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, semi solid	Lead (Pb)	APHA 23rd Ed. (3111B)
122	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Manganese (Mn)	APHA 23rd Ed. (3111B)
123	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Nickel (Ni)	APHA 23rd Ed. (3111B)
124	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Oil & Grease (Gravimetric method)	IS :3025 (Part 39):1991(RA: 2019)
125	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	pH@25oC	APHA 23rd Ed.(4500-H +B)
126	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Potassium (K)	APHA 23rd Ed. (3500 – K -B)
127	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Sodium (Na)	APHA 23rd Ed. (3500- Na, B)

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128	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Sulphate as SO4	APHA 23rd Ed. (4500- SO4 2- C, E)
129	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Temperature	IS: 3025 (Part 9)
130	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
131	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Sludge, Solid, Semi solid	Zinc as Zn	APHA 23rd Ed. (3111B)
132	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid, Slurry, Solid, Semi solid	Conductivity @ 25°C	APHA 23rd Ed. (2510 B)
133	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Acidity as CaCO3	IS 3025 (Part 22)
134	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Bicarbonate Alkalinity	APHA 23rd Ed. (2320B)
135	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Calcium as Ca	APHA 23rd Ed. (3500, Ca, B)
136	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Carbonate Alkalinity	APHA 23rd Ed. (2320B)
137	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Chloride as Cl	APHA 23rd Ed. 4500 Cl– B, D
138	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Dissolved Oxygen	APHA 23rd Ed.(4500 – O, B)
139	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Fluoride as F	APHA 23rd Ed. (4500- F – B, D)
140	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Magnesium as Mg	APHA 23rd Ed.(3500, Mg, B)
141	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Phosphate as P	APHA 23rd Ed. (4500 –P, D)
142	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Residual chlorine	APHA 23rd Ed.(4500 Cl-B)
143	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Sulphate as SO4	APHA 23rd Ed. (4500- SO4 2- C, E)
144	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Alkalinity (as CaCO3)	IS 3025(Part 23)
145	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Dissolved Solid	APHA 23rd Ed.2540C
146	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Dissolved Solid	IS 3025 (Part 16)

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147	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Fixed Solids	APHA 23rd Ed. (2540-E)
148	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Solids	APHA 23rd Ed. (2540 B)
149	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Suspended Solids	APHA 23rd Ed. (2540D)
150	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid/Slurry/Sludge/Solid/Semi-Solid	Total Volatile Solids	APHA 23rd Ed. (2540-E)
151	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	Moisture	IS:9235
152	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	Nitrogen (Kjeldahl)	IS:10158
153	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	pH	IS:10158
154	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	Phosphorus	IS:10158
155	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	Potassium	IS:10158
156	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	Volatile substance	IS:10158- Part 3
157	CHEMICAL- POLLUTION & ENVIRONMENT	Sludge and Solid	Zinc	USEPA SW 846 3050 B, 7000 B
158	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen	IS 14684
159	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen	VSITL/ES/SOP/03/02: 2021
160	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorous	Method manual, Soil Testing in India (Dept. of Agriculture Man and Cooperation, Ministry of Agri. Government of India),4.6.3.13 ,page no.96-99
161	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorous	Olsen's method, Watanabe and olesen's
162	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Potassium	Methods Manual, Soil Testing in India (Dept. of Agriculture and Cooperation, Ministry of Agri. Government of India) 4.6.3.14, page no-99
163	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation exchange capacity	IS:2720 (Part II)

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164	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Copper	USEPA SW 846 3050 B, 7000 B
165	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electrical Conductivity	Methods Manual, Soil Testing in India (Dept. of Agriculture and Cooperation, Ministry of Agri. Government of India),4.6.3.8a, page no.81
166	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Iron	USEPA SW 846- 3050 B / 7000 B
167	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Manganese	USEPA SW 846 3050 B, 7000 B
168	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Moisture	IS:2720 (Part II)
169	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Matter	Methods Manual, Soil Testing in India (Dept. of Agriculture and Cooperation, Ministry of Agri. Government of India), 4.6.3.9, page no.84
170	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH@25oC	IS:2720 (Part 26)
171	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	ZInc	USEPA SW 846 3050 B, 7000 B
172	CHEMICAL- WATER	Ground Water	Acidity as CaCO3	IS: 3025 (Part 22)
173	CHEMICAL- WATER	Ground Water	Ammonia (NH3)	APHA 23rd Ed. (4500 - NH3, F)
174	CHEMICAL- WATER	Ground Water	Bicarbonate Alkalinity	APHA 23rd Ed. (2320B)
175	CHEMICAL- WATER	Ground Water	Bio Chemical Oxygen Demand at 27°C for 3days	IS 3025 (Part 44)
176	CHEMICAL- WATER	Ground Water	Cadmium (Cd)	APHA 23rd Ed. (3111B)
177	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Ed. (3500Ca, B)
178	CHEMICAL- WATER	Ground Water	Carbonate Alkalinity	APHA 23rd Ed. (2320B)
179	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed. (5220-B)
180	CHEMICAL- WATER	Ground Water	Chloride as Cl	APHA 23rd Ed. (4500 Cl– B, D)
181	CHEMICAL- WATER	Ground Water	Chromium (Cr) Total	APHA 23rd Ed. (3111B)
182	CHEMICAL- WATER	Ground Water	Colour	APHA 23rd Ed. (2120)
183	CHEMICAL- WATER	Ground Water	Conductivity @ 25°C	APHA 23rd Ed. (2510 B)
184	CHEMICAL- WATER	Ground Water	Copper (Cu)	APHA 23rd Ed. (3111B)

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185	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	APHA 23rd Ed. (4500 – O, C)
186	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	IS: 3025 (part 38)
187	CHEMICAL- WATER	Ground Water	Fluoride as F	APHA 23rd Ed. (4500- F – D)
188	CHEMICAL- WATER	Ground Water	Hardness (Total)	APHA 23rd Ed.(2340 – C)
189	CHEMICAL- WATER	Ground Water	Iron (Fe)	APHA 23rd Ed. (3111 B)
190	CHEMICAL- WATER	Ground Water	Lead (Pb)	APHA 23rd Ed. (3111B)
191	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Ed. (3500Mg, B)
192	CHEMICAL- WATER	Ground Water	Manganese (Mn)	APHA 23rd Ed. (3111B)
193	CHEMICAL- WATER	Ground Water	N as Kjeldahl Nitrogen	APHA 23rd Ed.(4500 –N org, B)
194	CHEMICAL- WATER	Ground Water	N as Nitrate (NO3) nitrogen	APHA 23rd Ed. (4500 – NO3-B)
195	CHEMICAL- WATER	Ground Water	N as Nitrite (NO2) nitrogen	APHA 23rd Ed. (4500 – NO2 -B)
196	CHEMICAL- WATER	Ground Water	Nickel (Ni)	APHA 23rd Ed. (3111 B)
197	CHEMICAL- WATER	Ground Water	pH@25oC	APHA 23rd Ed. (4500-H+ B)
198	CHEMICAL- WATER	Ground Water	Phosphorous (P)	APHA 23rd Ed. (4500 –P, D)
199	CHEMICAL- WATER	Ground Water	Potassium (K)	APHA 23rd Ed. (3500 – K -B)
200	CHEMICAL- WATER	Ground Water	Residual chlorine	APHA 23rd Ed. (4500 Cl-B)
201	CHEMICAL- WATER	Ground Water	Silica (Colloidal)	APHA 23rd Ed. (4500 – SiO2 - C)
202	CHEMICAL- WATER	Ground Water	Sodium (Na)	APHA 23rd Ed. (3500- Na, B)
203	CHEMICAL- WATER	Ground Water	Sulphate as SO4	APHA 23rd Ed. (4500- SO4 2- C, E)
204	CHEMICAL- WATER	Ground Water	Sulphate as SO4	IS: 3025 (Part 24)
205	CHEMICAL- WATER	Ground Water	Temperature	IS: 3025 (Part 9)
206	CHEMICAL- WATER	Ground Water	Total alkalinity as CaCO3	IS: 3025 (Part 23)
207	CHEMICAL- WATER	Ground Water	Total Dissolved Solid	APHA 23rd Ed. (2540 C)
208	CHEMICAL- WATER	Ground Water	Total Dissolved Solid	IS: 3025 (Part 16)
209	CHEMICAL- WATER	Ground Water	Total Fixed Solids	APHA 23rd Ed. (2540-E)
210	CHEMICAL- WATER	Ground Water	Total Solids	APHA 23rd Ed. (2540 B)
211	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA 23rd Ed. (2540 D)
212	CHEMICAL- WATER	Ground Water	Total Volatile Solids	APHA 23rd Ed.(2540-E)
213	CHEMICAL- WATER	Ground Water	Zinc (Zn)	APHA 23rd Ed. (3111B)

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214	CHEMICAL- WATER	Industrial Water	Conductivity @ 25°C	APHA 23rd Ed. (2510 B)
215	CHEMICAL- WATER	Industrial Water	pH@25oC	APHA 23rd Ed. (4500-H +B)
216	CHEMICAL- WATER	Irrigation Water	Ammonia (NH3)	APHA 23rd Ed - (4500 - NH3, F)
217	CHEMICAL- WATER	Irrigation Water	Bio Chemical Oxygen Demand at 27°C for 3days	IS 3025 (Part 44)
218	CHEMICAL- WATER	Irrigation Water	Conductivity @ 25°C	APHA 23rd Ed. (2510 B)
219	CHEMICAL- WATER	Irrigation Water	Dissolved Oxygen	APHA 23rd Ed. (2540 C)
220	CHEMICAL- WATER	Irrigation Water	Dissolved Oxygen	IS 3025 (Part 16)
221	CHEMICAL- WATER	Irrigation Water	pH@25oC	APHA 23rd Ed. (4500-H +B)
222	CHEMICAL- WATER	Potable Water	Cadmium (Cd)	APHA 23rd Ed. (3111B)
223	CHEMICAL- WATER	Potable water	Calcium as Ca	APHA 23rd Ed. (3500Ca, B)
224	CHEMICAL- WATER	Potable Water	Chloride as Cl	APHA 23rd Ed. (4500 Cl– B, D)
225	CHEMICAL- WATER	Potable Water	Chromium (Cr) Total	APHA 23rd Ed.(3111B)
226	CHEMICAL- WATER	Potable Water	Colour	APHA 23rd Ed. (2120 B)
227	CHEMICAL- WATER	Potable Water	Copper (Cu)	APHA 23rd Ed. (3111B)
228	CHEMICAL- WATER	Potable Water	Dissolved Oxygen	APHA 23rd Ed.(4500 – O, C)
229	CHEMICAL- WATER	Potable Water	Dissolved Oxygen	IS 3025 (part 38)
230	CHEMICAL- WATER	Potable Water	Fluoride as F	APHA 23rd Ed. (4500- F – D)
231	CHEMICAL- WATER	Potable Water	Hardness (Total)	APHA 23rd Ed. (2340 – C)
232	CHEMICAL- WATER	Potable Water	Iron (Fe)	APHA 23rd Ed.(3111 B)
233	CHEMICAL- WATER	Potable Water	Lead (Pb)	APHA 23rd Ed.(3111B)
234	CHEMICAL- WATER	Potable Water	Magnesium as Mg	APHA 23rd Ed. (3500Mg, B)
235	CHEMICAL- WATER	Potable Water	Manganese (Mn)	APHA 23rd Ed. (3111B)
236	CHEMICAL- WATER	Potable Water	N as Nitrate (NO3) nitrogen	APHA 23rd Ed. (4500 – NO3-B)
237	CHEMICAL- WATER	Potable Water	pH@25oC	APHA 23rd Ed. (4500-H +B)
238	CHEMICAL- WATER	Potable Water	Residual chlorine	APHA 23rd Ed.-(4500 Cl-B)
239	CHEMICAL- WATER	Potable Water	Sulphate as SO4	APHA 23rd Ed.(4500- SO4 2- C, E)
240	CHEMICAL- WATER	Potable Water	Sulphate as SO4	IS 3025 (Part 24)
241	CHEMICAL- WATER	Potable Water	Total alkalinity as CaCO3	IS :3025 (Part 23)
242	CHEMICAL- WATER	Potable Water	Total Dissolved Solid	APHA 23rd Ed.(2540 C)

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243	CHEMICAL- WATER	Potable Water	Total Dissolved Solid	IS 3025 (Part 16)
244	CHEMICAL- WATER	Potable Water	Zinc (Zn)	APHA 23rd Ed.(3111B)
245	CHEMICAL- WATER	Surface Water	Acidity as CaCO3	IS: 3025 (Part 22)
246	CHEMICAL- WATER	Surface Water	Ammonia (NH3)	APHA 23rd Ed, (4500 - NH3, F)
247	CHEMICAL- WATER	Surface Water	Bicarbonate Alkalinity	APHA 23rd Ed. (2320 B)
248	CHEMICAL- WATER	Surface Water	Bio Chemical Oxygen Demand at 27°C for 3days	IS: 3025 (Part 44)
249	CHEMICAL- WATER	Surface Water	Cadmium (Cd)	APHA 23rd Ed. (3111B)
250	CHEMICAL- WATER	Surface Water	Calcium as Ca	APHA 23rd Ed. (3500Ca, B)
251	CHEMICAL- WATER	Surface Water	Carbonate Alkalinity	APHA 23rd Ed. (2320 B)
252	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	APHA 23rd Ed. (5220-B)
253	CHEMICAL- WATER	Surface Water	Chloride as Cl	APHA 23rd Ed. (4500 Cl– B, D)
254	CHEMICAL- WATER	Surface Water	Chromium (Cr) Total	APHA 23rd Ed. (3111B)
255	CHEMICAL- WATER	Surface Water	Colour	APHA 23rd Ed (2120)
256	CHEMICAL- WATER	Surface Water	Conductivity @ 25°C	APHA 23rd Ed. (2510 B)
257	CHEMICAL- WATER	Surface Water	Copper (Cu)	APHA 23rd Ed. (3111B)
258	CHEMICAL- WATER	Surface Water	Dissolved oxygen	IS: 3025 (part 38)
259	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA 23rd Ed. (4500 – O, C)
260	CHEMICAL- WATER	Surface Water	Fluoride as F	APHA 23rd Ed. (4500- F – D)
261	CHEMICAL- WATER	Surface Water	Hardness (Total)	APHA 23rd Ed. (2340 – C)
262	CHEMICAL- WATER	Surface Water	Iron (Fe)	APHA 23rd Ed. (3111. B)
263	CHEMICAL- WATER	Surface Water	Lead (Pb)	APHA 23rd Ed. (3111B)
264	CHEMICAL- WATER	Surface Water	Magnesium as Mg	APHA 23rd Ed. (3500 Mg, B)
265	CHEMICAL- WATER	Surface Water	Manganese (Mn)	APHA 23rd Ed. (3111B)
266	CHEMICAL- WATER	Surface Water	N as Kjeldahl Nitrogen	APHA 23rd Ed. (4500 –Norg, B)
267	CHEMICAL- WATER	Surface Water	N as Nitrate (NO3) nitrogen	APHA 23rd Ed. (4500 – NO3-B)
268	CHEMICAL- WATER	Surface Water	N as Nitrite (NO2) nitrogen	APHA 23rd Ed. (4500 – NO2 -B)
269	CHEMICAL- WATER	Surface Water	Nickel (Ni)	APHA 23rd Ed. (3111 B)
270	CHEMICAL- WATER	Surface Water	pH	APHA 23rd Ed (4500 H+ B)
271	CHEMICAL- WATER	Surface Water	Phosphorous (P)	APHA 23rd Ed. (4500 –P, D)

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272	CHEMICAL- WATER	Surface Water	Potassium (K)	APHA 23rd Ed. (3500 – K -B)
273	CHEMICAL- WATER	Surface Water	Residual chlorine	APHA 23rd Ed. (4500 Cl-B)
274	CHEMICAL- WATER	Surface Water	Silica (Colloidal)	APHA 23rd Ed. (4500 – SiO2- C)
275	CHEMICAL- WATER	Surface Water	Sodium (Na)	APHA 23rd Ed. (3500- Na, B)
276	CHEMICAL- WATER	Surface Water	Sulphate as SO4	APHA 23rd Ed. (4500- SO4 2- C, E)
277	CHEMICAL- WATER	Surface Water	Sulphate as SO4	IS: 3025 (Part 24)
278	CHEMICAL- WATER	Surface Water	Temperature	IS: 3025 (Part 9)
279	CHEMICAL- WATER	Surface Water	Total alkalinity as CaCO3	IS: 3025 (Part 23)
280	CHEMICAL- WATER	Surface Water	Total Dissolved Solid	APHA 23rd Ed. (2540 C)
281	CHEMICAL- WATER	Surface Water	Total Dissolved Solid	IS: 3025 (Part 16)
282	CHEMICAL- WATER	Surface Water	Total Fixed Solids	APHA 23rd Ed. (2540-E)
283	CHEMICAL- WATER	Surface Water	Total Solids	APHA 23rd Ed. (2540 B)
284	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Ed. (2540 D)
285	CHEMICAL- WATER	Surface Water	Total Volatile Solids	APHA 23rd Ed. (2540-E)
286	CHEMICAL- WATER	Surface Water	Zinc (Zn)	APHA 23rd Ed. (3111B)
287	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	construction and workmanship	IS 13487
288	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	Emission rate as a function of inlet pressure	IS 13487
289	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	Emitter Exponent	IS 13487
290	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	Emitter Pull Out	IS 13487
291	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	Flow path	IS 13487
292	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	Resistance to Hydrostatic Pressure at ambient and elevated temperature	IS 13487
293	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitter	Uniformity of emission rate (Cv) & Deviation of mean emission rate from nominal emission rate	IS 13487
294	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Carbon black content	IS 13488

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295	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	E.S.C.R test	IS 13488
296	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Emission Rate of inlet pressure	IS 13488
297	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting Pipe	Emitting Unit Exponent	IS 13488
298	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Flow path	IS 13488
299	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Inside Diameter	IS 13488
300	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Resistance to hydrostatic pressure at Ambient and elevated temperature	IS 13488
301	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Resistance to pull out of joints between fitting and emitting pipe	IS 13488
302	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Resistance to tension at elevated temperature	IS 13488
303	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Spacing of emitting unit	IS 13488
304	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Uniformity of emission rate (Cv) & Deviation of mean emission rate from nominal emission rate	IS 13488
305	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Visual appearance	IS 13488
306	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Emitting pipe	Wall thickness	IS 13488
307	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Carbon black content	Is 12786
308	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	E.S.C.R test	IS 12786
309	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Elongation at break	IS 12786
310	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Hydraulic characteristics Acceptance and quality test	IS 12786
311	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Outside diameter	IS 12786

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312	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Reversion test	IS 12786
313	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Tensile strength	IS 12786
314	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Visual Appearance	IS 12786
315	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation lateral	Wall Thickness	IS 12786
316	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Carbon black content	IS 14151 (Part 2)
317	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Density	IS 14151 (part 2)
318	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Elongation at break	IS 14151
319	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Hydraulic characteristics Acceptance and quality test	IS 14151 (Part 2)
320	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Melt flow rate	IS 14151 (Part 2)
321	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Outside diameter	IS 14151 (Part 2)
322	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Ovality	IS 14151 (Part 2)
323	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Reversion test	IS 14151 (Part 2)
324	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Tensile strength	IS 14151 (Part 2)
325	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Visual Appearance	IS 14151 (Part 2)
326	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Sprinkler pipe	Wall thickness	IS 14151 (Part 2)
327	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	sprinkler pipe	Workmanship appearance	IS 14151 (Part 2)