

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Mitra S. K. Private Limited

Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road,
Kolkata - 700015, West Bengal, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2024/0094

Valid from: 31 December 2024

Valid until: 30 December 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Valid from: 31 December 2024

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
1.	Ambient air	Suspended particulate matter (SPM)	TPM/MSK/ENV(AP)/01/01 Jan 04 :2023
2.	Ambient air	Respirable suspended particulate matter (PM10), Cyclonic Flow technique.	IS 5182 (Part 23): 2006
3.	Ambient air	Fine particulate matter (PM2.5)	IS 5182 (Part 24):2019
4.	Ambient air	Sulphur dioxide (SO ₂)	IS 5182 (Part 2)/Sec-1 2023
5.	Ambient air	Oxides of nitrogen (NO ₂)	IS 5182 (Part 6): 2006
6.	Ambient air	Carbon monoxide (CO)	IS 5182 (Part 10): 1999, (NDIR)
7.	Ambient air	Ozone (O ₃)	TPM/MSK/ENV(AP)/01/03 Jan 04 :2023
8.	Ambient air	Ammonia (NH ₃)	IS 5182 (Part 25): 2018
9.	Ambient air	Hydrogen sulphide (H ₂ S)	IS 5182 (Part 7): 2021
10.	Ambient air	Chlorine (Cl ₂)	IS 5182 (Part-XIX) 1982
11.	Ambient air	Total fluorides (F)	IS 5182 (Part-13): 1981 (selective ion electrode)
12.	Ambient air	Free silica	TPM/MSK/ENV(AP)/01/04 Jan 04 :2023
13.	Ambient air	Acid mist (HCl)	TPM/MSK/INST./AP/02
14.	Ambient air	Acid mist (HF)	TPM/MSK/INST./AP/02
15.	Ambient air	Acid mist (HNO ₃)	TPM/MSK/INST./AP/02
16.	Ambient air	Acid mist (HBr)	TPM/MSK/INST./AP/02
17.	Ambient air	Acid mist (H ₂ SO ₄)	TPM/MSK/INST./AP/02
18.	Ambient air	Acid mist (H ₃ PO ₄)	TPM/MSK/INST./AP/02
19.	Ambient air	Methane	TPM/MSK/INST-146

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
20.	Ambient air	Ethane	TPM/MSK/INST-146
21.	Ambient air	Propane	TPM/MSK/INST-146
22.	Ambient air	Butane	TPM/MSK/INST-146
23.	Ambient air	Iso-butane	TPM/MSK/INST-146
24.	Ambient air	Arsenic (As))	USEPA-IO 3.4: June 1999
25.	Ambient air	Lead (Pb)	USEPA-IO 3.4: June 1999
26.	Ambient air	Nickel (Ni)	USEPA-IO 3.4: June 1999
27.	Ambient air	Chromium (Cr)	USEPA-IO 3.4: June 1999
28.	Ambient air	Cobalt (Co)	USEPA-IO 3.4: June 1999
29.	Ambient air	Copper (Cu)	USEPA-IO 3.4: June 1999
30.	Ambient air	Manganese (Mn)	USEPA-IO 3.4: June 1999
31.	Ambient air	Vanadium (V)	USEPA-IO 3.4: June 1999
32.	Ambient air	Cadmium (Cd)	USEPA-IO 3.4: June 1999
33.	Ambient air	Iron (Fe)	USEPA-IO 3.4: June 1999
34.	Ambient air	Mercury (Hg)	TPM/MSK/INST-169
35.	Ambient air	Benzene	TPM/MSK/INST-144
36.	Ambient air	Toluene	TPM/MSK/INST-144
37.	Ambient air	Ethyl benzene	TPM/MSK/INST-144
38.	Ambient air	O- Xylene	TPM/MSK/INST-144
39.	Ambient air	P- Xylene	TPM/MSK/INST-144
40.	Ambient air	Benzo(a)Pyrene	TPM/MSK/INST-148
41.	Work environment and indoor air quality	Respirable dust	NIOSH-600- 15 th January 1998
42.	Work environment and indoor air quality	Total dust	NIOSH-0500- 15 th August,1994

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
43.	Work environment and indoor air quality	Sulphur dioxide (SO ₂)	TPM/MSK/ENV(AP)/03/04 Jan 04 :2023
44.	Work environment and indoor air quality	Oxides of nitrogen (NO ₂)	TPM/MSK/ENV(AP)/3/05 Jan 04 :2023
45.	Work environment and indoor air quality	Carbon monoxide (CO)	TPM/MSK/ENV(AP)/3/6 Jan 04 :2023
46.	Work environment and indoor air quality	Ozone (O ₃)	TPM/MSK/ENV(AP)/01/03 Jan 04 :2023
47.	Work environment and indoor air quality	Ammonia (NH ₃)	TPM/MSK/ENV(AP)/3/8 Jan 04 :2023
48.	Work environment and indoor air quality	Hydrogen sulphide (H ₂ S)	TPM/MSK/ENV(AP)/03/09 Jan 04 :2023
49.	Work environment and indoor air quality	Relative humidity	TPM/MSK/E&V(AP)/03/11 Jan 04 :2023
50.	Work environment and indoor air quality	Illumination	TPM/MSK/ENV(AP)/03/14 Jan 04 :2023
51.	Work environment and indoor air quality	Temperature	TPM/MSK/E&V(AP)/03/11 Jan 04 :2023
52.	Work environment and indoor air quality	Air Velocity	TPM/MSK/ENV(AP)/03/15 Jan 04 :2023
53.	Work environment and indoor air quality	Oil Content	NIOSH 5026-15 th May,1996
54.	Work environment and indoor air quality	Benzene	TPM/MSK/INST-144

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
55.	Work environment and indoor air quality	Toluene	TPM/MSK/INST-144
56.	Work environment and indoor air quality	Ethyl benzene	TPM/MSK/INST-144
57.	Work environment and indoor air quality	O- Xylene	TPM/MSK/INST-144
58.	Work environment and indoor air quality	P- Xylene	TPM/MSK/INST-144
59.	Work environment and indoor air quality	Arsenic (As)	NIOSH-7300,15 March 2003
60.	Work environment and indoor air quality	Antimony (Sb)	NIOSH-7300,15 March 2003
61.	Work environment and indoor air quality	Lead (Pb)	NIOSH-7300,15 March 2003
62.	Work environment and indoor air quality	Chromium (Cr)	NIOSH-7300,15 March 2003
63.	Work environment and indoor air quality	Cobalt (Co)	NIOSH-7300,15 March 2003
64.	Work environment and indoor air quality	Copper (Cu)	NIOSH-7300,15 March 2003
65.	Work environment and indoor air quality	Manganese (Mn)	NIOSH-7300,15 March 2003
66.	Work environment and indoor air quality	Nickel (Ni)	NIOSH-7300,15 March 2003

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
67.	Work environment and indoor air quality	Vanadium (V)	NIOSH-7300,15 March 2003
68.	Work environment and indoor air quality	Cadmium (Cd)	NIOSH-7300,15 March 2003
69.	Work environment and indoor air quality	Iron (Fe)	NIOSH-7300,15 March 2003
70.	Work Environment and Indoor Air Quality	Carbon dioxide (CO ₂)	TPM/MSK/INST-146
71.	Work Environment and Indoor Air Quality	Formaldehyde	NIOSH-2016 -15th March,2003
72.	Work Environment and Indoor Air Quality	Acid mist (HCl)	TPM/MSK/INST./AP/02
73.	Work Environment and Indoor Air Quality	Acid mist (HF)	TPM/MSK/INST./AP/02
74.	Work Environment and Indoor Air Quality	Acid mist (HNO ₃)	TPM/MSK/INST./AP/02
75.	Work Environment and Indoor Air Quality	Acid mist (HBr)	TPM/MSK/INST./AP/02
76.	Work Environment and Indoor Air Quality	Acid mist (H ₂ SO ₄)	TPM/MSK/INST./AP/02
77.	Work Environment and Indoor Air Quality	Acid mist (H ₃ PO ₄)	TPM/MSK/INST./AP/02
78.	Fugitive emission/ workzone air	Suspended particulate matter (SPM)	TPM/MSK/ENV(AP)/01/01 Jan 04 :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
79.	Fugitive emission/ workzone air	Respirable suspended particulate matter (PM ₁₀), Cyclonic flow technique.	TPM/MSK/ENV(AP)/04/02 Jan 04 :2023
80.	Fugitive emission/ workzone air	Fine particulate matter (PM _{2.5})	TPM/MSK/ENV(AP)/04/03 Jan 04 :2023
81.	Fugitive emission/ workzone air	Sulphur dioxide (SO ₂)	TPM/MSK/ENV(AP)/04/04 Jan 04 :2023
82.	Fugitive emission/ workzone air	Oxides of nitrogen (NO ₂)	TPM/MSK/ENV(AP)/04/05 Jan 04 :2023
83.	Fugitive emission/ workzone air	Carbon monoxide (CO)	TPM/MSK/ENV(AP)/03/04 Jan 04 :2023
84.	Fugitive emission/ workzone air	Benzene	TPM/MSK/INST-144
85.	Fugitive emission/ workzone air	Toluene	TPM/MSK/INST-144
86.	Fugitive emission/ workzone air	Ethyl benzene	TPM/MSK/INST-144
87.	Fugitive emission/ workzone air	O- Xylene	TPM/MSK/INST-144
88.	Fugitive emission/ workzone air	P- Xylene	TPM/MSK/INST-144
89.	Fugitive emission/ workzone air	Arsenic (As)	USEPA-IO 3.4: June 1999
90.	Fugitive emission/ workzone air	Lead (Pb)	USEPA-IO 3.4: June 1999

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
91.	Fugitive emission/ workzone air	Chromium (Cr)	USEPA-IO 3.4: June 1999
92.	Fugitive emission/ workzone air	Cobalt (Co)	USEPA-IO 3.4: June 1999
93.	Fugitive emission/ workzone air	Copper (Cu)	USEPA-IO 3.4: June 1999
94.	Fugitive emission/ workzone air	Manganese (Mn)	USEPA-IO 3.4: June 1999
95.	Fugitive emission/ workzone air	Nickel (Ni)	USEPA-IO 3.4: June 1999
96.	Fugitive emission/ workzone air	Vanadium (V)	USEPA-IO 3.4: June 1999
97.	Fugitive emission/ workzone air	Cadmium (Cd)	USEPA-IO 3.4: June 1999
98.	Fugitive emission/ workzone air	Iron (Fe)	USEPA-IO 3.4: June 1999
99.	Fugitive emission/ workzone air	Mercury (Hg)	TPM/MSK/INST-169
100.	Fugitive emission/ workzone air	Naphthalene	TPM/MSK/INST-143
101.	Fugitive emission/ workzone air	Acenaphthylene	TPM/MSK/INST-143
102.	Fugitive emission/ workzone air	Acenaphthene	TPM/MSK/INST-143

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
103.	Fugitive emission/ workzone air	Fluorene	TPM/MSK/INST-143
104.	Fugitive emission/ workzone air	Anthracene	TPM/MSK/INST-143
105.	Fugitive emission/ workzone air	Phenanthrene	TPM/MSK/INST-143
106.	Fugitive emission/ workzone air	Fluoranthene	TPM/MSK/INST-143
107.	Fugitive emission/ workzone air	Pyrene	TPM/MSK/INST-143
108.	Fugitive emission/ workzone air	Benzo[a]Anthracene	TPM/MSK/INST-143
109.	Fugitive emission/ workzone air	Chrysene	TPM/MSK/INST-143
110.	Fugitive emission/ workzone air	Benzo(k)Fluoranthene	TPM/MSK/INST-143
111.	Fugitive emission/ workzone air	Benzo(a)Pyrene	TPM/MSK/INST-143
112.	Fugitive emission/ workzone air	Benzo[ghi]Perylene	TPM/MSK/INST-143
113.	Fugitive emission/ workzone air	Dibenz(ah)Anthracene	TPM/MSK/INST-143
114.	Fugitive emission/ workzone air	Indeno(1,2,3-cd) Pyrene	TPM/MSK/INST-143

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
115.	Fugitive emission/ workzone air	Benzo(B)Fluoranthene	TPM/MSK/INST-143
116.	Noise (excluding vibration)	Ambient noise (Leq, Lmax, Lmin, Lday,Lnight,)	IS 9989: 1981
117.	Noise (excluding vibration)	Source specific noise dB(A) Avg,max, min)	IS 9989: 1981
118.	Stack emission	Flow rate of the flue gas	IS: 11255 (Part 3):2008
119.	Stack emission	Oxygen (O ₂)	IS: 13270: 1992
120.	Stack emission	Carbon dioxide (CO ₂)	IS: 13270: 1992
121.	Stack emission	Carbon monoxide (CO)	IS: 13270: 1992
122.	Stack emission	Moisture content	IS: 11255 (Part 3):2008
123.	Stack emission	Temperature	IS: 11255 (Part 3):2008
124.	Stack emission	Velocity	IS: 11255 (Part 3):2008
125.	Stack emission	Particulate matter	IS: 11255 (Part I):1985
126.	Stack emission	Sulphur dioxide (SO ₂)	IS: 11255 (Part 2): 1985
127.	Stack emission	Oxides of nitrogen (NO ₂)	IS: 11255 (Part 7): 2005
128.	Stack emission	Sulphuric acid mist	USEPA (Part 8): 29/10/1996
129.	Stack emission	Ammonia (NH ₃)	IS: 11255 (Part 6): 1999, method-A
130.	Stack emission	Total fluoride	IS: 11255 (Part 5): 1990
131.	Stack emission	Hydrogen sulphide (H ₂ S)	IS: 11255 (Part 4): 2006

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
132.	Stack emission	Hydrogen chloride (HCl)	TPM/MSK/INST-137
133.	Stack emission	Hydrogen fluoride (HF)	TPM/MSK/INST-137
134.	Stack emission	Hydrogen bromide (HBr)	TPM/MSK/INST-137
135.	Stack emission	Acid mist (H ₂ SO ₄)	TPM/MSK/INST-137
136.	Stack emission	Acid mist (H ₃ PO ₄)	TPM/MSK/INST-137
137.	Stack emission	Chlorine (Cl ₂)	TPM/MSK/INST-137
138.	Stack emission	Methane	TPM/MSK/INST-145
139.	Stack emission	Ethane	TPM/MSK/INST-145
140.	Stack emission	Propane	TPM/MSK/INST-145
141.	Stack emission	n Butane	TPM/MSK/INST-145
142.	Stack emission	Iso-butane	TPM/MSK/INST-145
143.	Stack emission	Benzene	TPM/MSK/INST-144
144.	Stack emission	Toluene	TPM/MSK/INST-144
145.	Stack emission	Ethyl benzene	TPM/MSK/INST-144
146.	Stack emission	O- Xylene	TPM/MSK/INST-144
147.	Stack emission	P- Xylene	TPM/MSK/INST-144
148.	Stack emission	1,1,2-Trichloroethane	TPM/MSK/INST-147
149.	Stack emission	1,2-Dibromoethane	TPM/MSK/INST-147

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
150.	Stack emission	Chlorobenzene	TPM/MSK/INST-147
151.	Stack emission	Isopropyl benzene	TPM/MSK/INST-147
152.	Stack emission	1,1,2,2-Tetrachloroethane	TPM/MSK/INST-147
153.	Stack emission	Bromobenzene	TPM/MSK/INST-147
154.	Stack emission	Tert-Butylbenzene	TPM/MSK/INST-147
155.	Stack emission	1,2,4-Trimethylbenzene	TPM/MSK/INST-147
156.	Stack emission	Sec-Butylbenzene	TPM/MSK/INST-147
157.	Stack emission	1,4-Dichlorobenzene	TPM/MSK/INST-147
158.	Stack emission	n-Butylbenzene	TPM/MSK/INST-147
159.	Stack emission	1,2-Dichlorobenzene	TPM/MSK/INST-147
160.	Stack emission	1,2-Dibromo-3-Chloropropapane	TPM/MSK/INST-147
161.	Stack emission	1,2,4-Trichlorobenzene	TPM/MSK/INST-147
162.	Stack emission	Hexachlorobutadiene	TPM/MSK/INST-147
163.	Stack emission	1,2,3-Trichlorobenzene	TPM/MSK/INST-147
164.	Stack emission	Arsenic (As)	USEPA 29-25/06/1996
165.	Stack emission	Antimony (Sb)	USEPA 29-25/06/1996
166.	Stack emission	Lead (Pb)	USEPA 29-25/06/1996
167.	Stack emission	Chromium (Cr)	USEPA 29-25/06/1996
168.	Stack emission	Cobalt (Co)	USEPA 29-25/06/1996

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
169.	Stack emission	Copper (Cu)	USEPA 29-25/06/1996
170.	Stack emission	Manganese (Mn)	USEPA 29-25/06/1996
171.	Stack emission	Nickel (Ni)	USEPA 29-25/06/1996
172.	Stack emission	Vanadium (V)	USEPA 29-25/06/1996
173.	Stack emission	Cadmium (Cd)	USEPA 29-25/06/1996
174.	Stack emission	Mercury (Hg)	TPM/MSK/INST-169
175.	Stack emission	Naphthalene	TPM/MSK/INST-143
176.	Stack emission	Acenaphthylene	TPM/MSK/INST-143
177.	Stack emission	Acenaphthene	TPM/MSK/INST-143
178.	Stack emission	Fluorene	TPM/MSK/INST-143
179.	Stack emission	Anthracene	TPM/MSK/INST-143
180.	Stack emission	Phenanthrene	TPM/MSK/INST-143
181.	Stack emission	Fluoranthene	TPM/MSK/INST-143
182.	Stack emission	Pyrene	TPM/MSK/INST-143
183.	Stack emission	Benzo[a]Anthracene	TPM/MSK/INST-143
184.	Stack emission	Chrysene	TPM/MSK/INST-143
185.	Stack emission	Benzo(k)Fluoranthene	TPM/MSK/INST-143
186.	Stack emission	Benzo(a)Pyrene	TPM/MSK/INST-143
187.	Stack emission	Benzo[ghi]Perylene	TPM/MSK/INST-143
188.	Stack emission	Dibenz(ah)Anthracene	TPM/MSK/INST-143
189.	Stack emission	Indeno(1,2,3-cd) Pyrene	TPM/MSK/INST-143

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
190.	Stack emission	Benzo(B)Fluoranthene	TPM/MSK/INST-143
191.	Meteorological	Ambient temperature	TPM/MSK/ENV(AP)/06/01 Jan 04 :2023
192.	Meteorological	Relative humidity	TPM/MSK/ENV(AP)/06/01 Jan 04 :2023
193.	Meteorological	Solar radiation	TPM/MSK/ENV(AP)/06/01 Jan 04 :2023
194.	Meteorological	Wind direction	TPM/MSK/ENV(AP)/06/01 Jan 04 :2023
195.	Meteorological	Wind speed	TPM/MSK/ENV(AP)/06/01 Jan 04 :2023
196.	Meteorological	Rain fall	TPM/MSK/ENV(AP)/06/01 Jan 04 :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
1.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Aldehydes as acetaldehyde	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.018:2021
2.		Aldehydes as acetaldehyde	IS 3752:2005 Reaff. 2020
3.		Ammonium chloride	TPM/MSK/F/18/A
4.		Carbon dioxide	TPM/MSK/F/15/P
5.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Esters as ethyl acetate	IS 3752:2005 Reaff. 2020
6.		Esters as ethyl acetate	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.010:2021
7.		Ethyl alcohol content at 20 °C	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.001:2021
8.		Ethyl alcohol content at 20 °C	IS 3752:2005 Reaff. 2020
9.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Free from added colouring matter	FSSAI Manual of Methods of analysis Of Foods, Food Additives: 4.2
10.		Free from sedimentation and harmful ingredients	IS 3752:2005 Reaff. 2020
11.		Furfural	IS 3752:2005 Reaff. 2020
12.		Furfural	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.021:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
13.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Higher alcohols as amyl alcohol	IS 3752:2005 Reaff. 2020
14.		Higher alcohols as amyl alcohol	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.013:2021
15.		Hydrocyanic acid	TPM/MSK/F/14/K1
16.		pH	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.040:2021
17.		Residue on evaporation	IS 3752:2005 Reaff. 2020
18.	Alcoholic beverages (wine)	Residual extract (sugar free)	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.032:2021
19.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Residue on evaporation	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.006:2021
20.	Alcoholic beverages (for colourless liquors)	Total acid as tartaric acid	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.007:2021

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
21.	Alcoholic beverages (or coloured liquors such as wine, toddy)	Total acid as tartaric acid	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.008:2021
22.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Volatile acid as acetic acid	IS 3752:2005 Reaff. 2020
23.		Volatile acid as acetic acid	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.009:2021
24.		Sugar	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.037:2021
25.		Total sulphur dioxide	FSSAI Manual of methods of Analysis of Food Alcoholic Beverage FSSAI 13.029:2021
26.		Phosphates	TPM/MSK/F/39
27.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol, country liquors)	Ascorbic acid	IS 5838: 1970 Reaff. 2020

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
Food & Agricultural Products				
28.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Methyl alcohol	IS 3752:2005 Reaff. 2020	
29.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Benzoate	TPM/MSK/INST./136	
30.		Sorbates	TPM/MSK/INST./136	
31.		Acesulfame potassium	TPM/MSK/INST./136	
32.		Aspartame	TPM/MSK/INST./136	
33.		Saccharine	TPM/MSK/INST./136	
34.		Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Tatrazine	TPM/MSK/INST-149
35.			Carmoisine	TPM/MSK/INST-149
36.			Brilliant blue FCF	TPM/MSK/INST-149
37.			Sunset yellow FCF	TPM/MSK/INST-149
38.			Ponceau 4R	TPM/MSK/INST-149
39.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)		Fast green FCF	TPM/MSK/INST-149
40.		Erythrosine	TPM/MSK/INST-149	
41.		Indigotine	TPM/MSK/INST-149	
42.		Agaric acid	TPM/MSK/F-34/I	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
43.		Caffeine	TPM/MSK/INST./136
44.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Hypericine	TPM/MSK/F-34/J
45.		Saffrole	TPM/MSK/F-34/H
46.		Chloral hydrate	TPM/MSK/INST./41
47.		Diazepam	TPM/MSK/INST./44
48.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Paraldehyde	TPM/MSK/INST./41
49.		Pyridine	TPM/MSK/INST./41
50.	Butter	Moisture	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.080:2022
51.	Butter	Fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.081:2022
52.	Butter	Curd (milk solids not fat)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.081:2022
53.	Butter	pH	TPM/MSK/F/14/M
54.	Butter	Protein	IS 7219:1973 Reaff. 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
55.	Butter	Salt	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.083:2022
56.	Butter	Titrateable acidity	IS 3507:1966 Reaff. 2018
57.	Butter	Carbohydrate	TPM/MSK/F/16/E
58.	Butter	Energy	TPM/MSK/F/16/E
59.	Cheese	Carbohydrate	TPM/MSK/F/16/E
60.	Cheese	Energy	TPM/MSK/F/16/E
61.	Cheese	Milk fat (on dry matter basis)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.040:2022
62.	Cheese	Moisture	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.039:2022
63.	Cheese	Protein	IS 7219:1973 Reaff. 2020
64.	Chhena / paneer	Carbohydrate	TPM/MSK/F/16/E
65.	Chhena / paneer	Energy	TPM/MSK/F/16/E
66.	Chhena / paneer	Fat (on dry matter basis)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.044:2022
67.	Chhena / paneer	Fat (on dry matter basis)	IS 10484:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
68.	Chhena / paneer	Moisture	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.043:2022
69.	Chhena / paneer	Moisture	IS 10484:2021
70.	Chhena / paneer	pH	TPM/MSK/F/14/M
71.	Chhena / paneer	Protein	IS 7219:1973 Reaff. 2020
72.	Chhena / paneer	Titrateable acidity	IS 10484:2021
73.	Ice cream	Acidity as lactic acid	IS 1479 (Part 1):2016 Reaff. 2021
74.	Ice cream	Carbohydrate	TPM/MSK/F/16/E
75.	Ice cream	Energy	TPM/MSK/F/16/E
76.	Ice cream	Milk fat	IS 11762:2013 Reaff. 2022
77.	Ice cream	Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.048:2022
78.	Ice cream	Milk protein	IS 11917:2018 Reaff. 2023
79.	Ice cream	Milk protein	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.049:2022
80.	Ice cream	Sucrose	TPM/MSK/F/14/K
81.	Ice cream	Total solid	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.046:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
82.	Ice cream	Weight	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.047:2022
83.	Ice cream	Phosphatase test	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.021:2022
84.	Ice cream	Phosphatase test	IS 8479 (Part 1):1977 Reaff. 2018
85.	Khoa	Carbohydrate	TPM/MSK/F/16/E
86.	Khoa	Energy	TPM/MSK/F/16/E
87.	Khoa	Milk fat dry matter basis	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.073:2022
88.	Khoa	Protein	IS 7219:1973 Reaff. 2020
89.	Khoa	Titration acidity (% as lactic acid)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.076:2022
90.	Khoa	Total ash	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.077:2022
91.	Khoa	Total solids	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.072:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
92.	Khoa	Added starch	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.003:2022
93.	Khoa	Detection of sucrose (added sugar)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.075:2022
94.	Extracted fat from khoa	Polenske value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.090:2022
95.	Extracted fat from khoa	Reichert meissl value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.090:2022
96.	Extracted fat from khoa	Butyro-refractometer reading	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.088:2022
97.	Liquid milk: raw/sterilized/ Pasteurized/ flavoured/toned/ double toned/standardized/ recombined/condensed/ sweetened/full cream/ skimmed/ evaporated/ Sweetened condensed/ buffalo milk/ cow milk/ goat milk/ mixed milk/ lassi/dahi/ yoghurt/ dairy-based products	Detection of ammonium salts	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.006:2022
98.		Ash	IS 1479 (Part 2):1961 Reaff. 2018
99.		Detection of sucrose (cane sugar)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.002:2022
100.		Carbohydrate (by calculation)	TPM/MSK/F/16/E
101.		Energy	TPM/MSK/F/16/E

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
102.	Liquid milk: raw/sterilized/ Pasteurized/ flavoured/toned/ double toned/standardized/ recombined/condensed/ sweetened/full cream/ skimmed/ evaporated/ Sweetened condensed/ buffalo milk/ cow milk/ goat milk/ mixed milk/ lassi/ dahi/ yoghurt/ dairy-based products	Detection of formaldehyde	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.016:2022
103.		Detection of hydrogen peroxide	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.017:2022
104.		Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.024:2022
105.		Milk protein in milk solid not - fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.054:2022
106.		Milk solids	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.053:2022
107.		Detection of neutralizers	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.012:2022
108.		pH	IS 1479 (Part 2):1961 Reaff. 2018
109.		Protein	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.027:2022
110.		Detection of sodium carbonate	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.012:2022

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	Food & Agricultural Products		
111.		Detection of sodium chloride	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.009:2022
112.		Detection of sodium-bi-carbonate	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.012:2022
113.		Solids-not-fat (SNF)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.025:2022
114.		Detection of starch	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.003:2022
115.	Liquid milk: raw/sterilized/ Pasteurized/ flavoured/toned/ double toned/standardized/	Detection of sulphates	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.007:2022
116.	recombined/condensed/ sweetened/full cream/ skimmed/ evaporated/	Detection of urea	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.004:2022
117.	Sweetened condensed/ buffalo milk/ cow milk/ goat milk/ mixed milk/ lassi/	Checking efficiency of sterilization in liquid milk	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.022:2022
118.	dahi/yoghurt/ dairy-based products	Detection of alkaline phosphatase	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.021:2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
119.		Detection of anionic detergents	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.015:2022
120.		Detection of boric acid and borates	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.018:2022
121.		Detection of glucose in milk	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.008:2022
122.		Detection of hypochlorite and chloramines	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.013:2022
123.	Liquid milk: raw/sterilized/ Pasteurized/ flavoured/toned/ double toned/standardized/ recombined/condensed/ sweetened/full cream/ skimmed/ evaporated/	Detection of maltodextrin	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.020:2022
124.	Sweetened condensed/ buffalo milk/ cow milk/ goat milk/ mixed milk/ lassi/ dahi/yoghurt/ dairy-based products	Detection of nitrate	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.011:2022
125.		Detection of presence of foreign fat	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.010:2022
126.		Detection of quaternary ammonium compounds	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.014:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
127.		Detection of salicylic acid	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.019:2022
128.		Detection of skimmed milk powder addition in species identified milk and mixed milk	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.023:2022
129.		Total urea content	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.005:2022
130.		Milk solid not fat	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.054:2022
131.		Phosphates	TPM/MSK/F/39
132.	Liquid milk: raw/sterilized/ Pasteurized/ flavoured/toned/	Acesulfame potassium	TPM/MSK/INST./136
133.	double toned/standardized/ recombined/condensed/	Aspartame	TPM/MSK/INST./136
134.	sweetened/full cream/ skimmed/ evaporated/	Ponceau 4R	TPM/MSK/INST-149
135.	Sweetened condensed/	Carmoisine	TPM/MSK/INST-149
136.	buffalo milk/ cow milk/ goat milk/ mixed milk/ lassi/ dahi/yoghurt/ dairy-based products	Tartrazine	TPM/MSK/INST-149

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Food & Agricultural Products			
137.	Liquid milk: raw/sterilized/ Pasteurized/ flavoured/toned/ double toned/standardized/ recombined/condensed/ sweetened/full cream/ skimmed/ evaporated/ Sweetened condensed/ buffalo milk/ cow milk/ goat milk/ mixed milk/ lassi/ dahi/yoghurt/ dairy-based products	Sorbates	TPM/MSK/INST./136	
138.		Sunset yellow FCF	TPM/MSK/INST-149	
139.		Brilliant blue FCF	TPM/MSK/INST-149	
140.		Carmoisine	TPM/MSK/INST-149	
141.		Erythrosine	TPM/MSK/INST-149	
142.		Fast green FCF	TPM/MSK/INST-149	
143.		Indigotine	TPM/MSK/INST-149	
144.		Saccharine	TPM/MSK/INST./136	
145.		Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Carbohydrate	TPM/MSK/F/16/E
146.		Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Energy	TPM/MSK/F/16/E
147.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Insolubility index	IS 12759:2019	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
148.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Insolubility index	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.068:2022
149.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Milk fat	IS 11721:2013 Reaff. 2022
150.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.057:2022
151.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Milk Protein in milk (solid not fat)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.062:2022
152.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Moisture	IS 16072:2012 Reaff. 2018
153.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Moisture	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.056:2022
154.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Scorched particle	IS 13500:1992 Reaff. 2022
155.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Scorched particle	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.070:2022

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Food & Agricultural Products			
156.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Titrateable acidity	IS 11766:1986 Reaff. 2022
157.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Titrateable acidity	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.059:2022
158.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Total ash	IS 14433:2022
159.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Total Ash (On Moisture & Fat free Basis)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.064:2022
160.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Acid Insoluble ash	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.065:2022
161.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Added sugar (as sucrose)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.061:2022
162.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Phosphate	TPM/MSK/F/39
163.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Butylated hydroxyanisole (BHA)	TPM/MSK/INST-151

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
164.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Butylated hydroxytoluene (BHT)	TPM/MSK/INST-151
165.	Skimmed / evaporated / dried milk powder/ whole milk powder / dairy whitener	Tert-Butylatedhydroxyquinone (TBHQ)	TPM/MSK/INST-151
166.	Lassi	Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.024:2022
167.	Lassi	Milk solid-not fat	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.034:2022
168.	Lassi	Total solids	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.025:2022
169.	Lassi	Added sugar	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.061:2022
170.	Cream	Milk fat	IS 3509:1966 Reaff. 2018
171.	Cream	Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.030:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
172.	Cream	Protein	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.027:2022
173.	Cream	Titration acidity	IS 3509:1966 Reaff. 2018
174.	Cream	Titration acidity	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.035:2022
175.	Cream	Total solids	AOAC Official Method 920.107
176.	Cream	Detection of Presence of Thickeners	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.031:2022
177.	Cream	Detection of alkaline phosphatase	FSSAI Manual of Methods for Analysis of Dairy & Dairy Products FSSAI 01.021:2022
178.	Cream	Phosphates	TPM/MSK/F/39
179.	Curd (yoghurt, flavoured dahi)	Carbohydrate	TPM/MSK/F/16/E
180.	Curd (yoghurt, flavoured dahi)	Energy	TPM/MSK/F/16/E
181.	Curd (yoghurt, flavoured dahi)	Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.033:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
182.	Curd (yoghurt, flavoured dahi)	Milk protein	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.036:2022
183.	Curd (yoghurt, flavoured dahi)	Milk solids not fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.034:2022
184.	Curd (yoghurt, flavoured dahi)	Titration acidity (% as Lactic Acid)	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.035:2022
185.	Curd (yoghurt, flavoured dahi)	Added sugar	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.061:2022
186.	Curd (yoghurt, flavoured dahi)	Added colour	FSSAI Manual of Methods of analysis Of Foods, Food Additives; 4.2
187.	Curd (yoghurt, flavoured dahi)	Detection of starch	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.037:2022
188.	Curd (yoghurt, flavoured dahi)	Phosphates	TPM/MSK/F/39
189.	Ghee	Added colour	FSSAI Manual of Methods of analysis Of Foods, Food Additives; 4.2
190.	Ghee	Moisture	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.086:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
191.	Ghee	Milk fat	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.087:2022
192.	Ghee	Butyro refractometer reading at 40 °C	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.088:2022
193.	Ghee	Reichert Meissl Value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.090:2022
194.	Ghee	Polenske value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.090:2022
195.	Ghee	FFA as oleic acid	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.089:2022
196.	Ghee	Peroxide value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.094:2022
197.	Ghee	Test for presence of sesame oil / baudouin test	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.091:2022
198.	Ghee	Iodine value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.095:2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
199.	Ghee	Saponification value	FSSAI Manual of Methods of Analysis of Foods-Dairy and Dairy Products FSSAI 01.096:2022
200.	Milk and milk products	Cholesterol	TPM/MSK/INST-152
201.	Caraway (siahjira), cardamom (elaichi), chillies and capsicum (lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhania), cumin (zeera, kalonji), fennel (saunf), fenugreek (methi), dried ginger, mace (jaipatri), mustard (rai, sarson), nutmeg (jaiphal), black, white peppers, poppy (khas khas), turmeric (haldi) (powdered and finger),	Extraneous matter/ foreign matter content	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
202.	aniseed (saunf), ajowan, dehydrated onion, dried (dehydrated) garlic, curry powder, mixed masala powder	Moisture	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.003:2021
203.		Total ash on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.006:2021
204.		Ash insoluble in dilute HCl on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.007:2021
205.		Volatile oil content on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.013:2021
206.		Nonvolatile ether extract	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.012:2021
207.	Caraway (siahjira), cardamom (elaichi), chillies and capsicum	Added colouring matter	FSSAI Manual of Methods of analysis Of Foods, Food Additives; 4.2

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
208.	(lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhania),	Crude fibre on dry basis	FSSAI manual of methods of analysis of foods spices and condiments: FSSAI 10.014:2021
209.	cumin (zeera, kalonji), fennel (saunf), fenugreek (methi), dried ginger, mace (jaipatri),	Broken fruits (damaged, shrivelled, discoloured and immature seed)	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
210.	mustard (rai, sarson), nutmeg (jaiphal), black, white peppers,	Carbohydrate	TPM/MSK/F/16E
211.	poppy (khas khas), turmeric (haldi) (powdered and finger), aniseed (saunf), ajowan,	Cold water-soluble extract on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.009:2021
212.	dehydrated onion, dried (dehydrated) garlic, curry powder, mixed masala powder	Damaged/discoloured fruits	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
213.		Alcohol (90% v/w) soluble extract on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.010:2021
214.		Energy	TPM/MSK/F/16/E
215.		Fat	TPM / MSK / F/21/N
216.		Protein	IS 7219:1973 Reaff. 2020
217.	Caraway (siahjira), cardamom (elaichi), chillies and capsicum	Total Nitrogen on dry basis	IS 7219:1973 Reaff. 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
218.	(lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhania),	Foreign edible seeds	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
219.	cumin (zeera, kalonji), fennel (saunf), fenugreek (methi), dried ginger, mace (jaipatri),	Starch	FSSAI manual of methods of analysis of foods spices and condiments: FSSAI 10.032:2021
220.	mustard (rai, sarson), nutmeg (jaiphal), black, white peppers,	Sulphur-di-oxide	AOAC Official Method (22nd Edition) 990.28
221.	poppy (khas khas), turmeric (haldi) (powdered and finger),	Salt (sodium chloride)	IS 1797:2017 Reaff. 2021
222.	aniseed (saunf), ajowan, dehydrated onion, dried	Water soluble ash (on dry basis)	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.008:2021
223.	(dehydrated) garlic	Free from dirt	AOAC (22nd Edition) 955.42
224.	Cardamom (elaichi)	Immature and shrivelled capsules (cardamom)	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
225.	Caraway (siahjira), cardamom (elaichi), chillies and capsicum (lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhanja), cumin (zeera, kalonji), fennel (saunf), fenugreek (methi), dried ginger, mace (jaipatri), mustard (rai, sarson), nutmeg (jaiphal), black, white peppers, poppy (khas khas), turmeric (haldi) (powdered and finger), aniseed (saunf), ajowan, dehydrated onion, dried (dehydrated) garlic	Insect damaged matter	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
226.	(jaiphal), black, white peppers, poppy (khas khas), turmeric (haldi) (powdered and finger), aniseed (saunf), ajowan, dehydrated onion, dried (dehydrated) garlic	Light seeds	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
227.	Caraway (siahjira), cardamom (elaichi), chillies and capsicum (lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhanja), cumin (zeera, kalonji), fennel (saunf), fenugreek (methi),	Living and dead insects and insect fragments	AOAC (22nd Edition) Official Method 955.42
228.	(lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhanja), cumin (zeera, kalonji), fennel (saunf), fenugreek (methi),	Mold	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
229.	(lal mirchi), cinnamon (dalchini), cassia (taj), cloves (laung), coriander (dhanja), cumin (zeera, kalonji), fennel (saunf), fenugreek (methi),	Rodent contamination	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
230.	dried ginger, mace (jaipatri), mustard (rai, sarson), nutmeg (jaiphal), black, white peppers,	Animal excreta	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
231.	poppy (khas khas), saffron (kesar), turmeric (haldi), aniseed (saunf), ajowan,	Physical characteristics & insects' infestation	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
232.	dehydrated onion, dried (dehydrated) garlic, curry	Physical examination free from fungal growth	AOAC Official Method (22nd Edition) 955.42
233.	powder, mixed masala powder	Total aflatoxin	TPM/MSK/F/38
234.	Chillies, capsicum (lal mirchi) – powder and whole	Added mineral oil content	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.023:2021
235.	Chillies, capsicum (lal mirchi) – powder and whole	Broken fruits, seed & fragments	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
236.	Chillies, capsicum (lal mirchi) – powder and whole	Crude fibre on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.014:2021
237.	Chillies, capsicum (lal mirchi) – powder and whole	Extractable colour as ASTA	ISO 7541:2020
238.	Chillies, capsicum (lal mirchi) – powder and whole	Unripe and marked fruits	FSSAI manual of methods of analysis of foods spices and condiments
239.	Mace (jaipatri) whole	Nutmeg in mace	TPM/MSK/F/16/F

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
240.	Coriander (dhania) whole	Split fruits	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
241.	Cumin (zeera, kalonji)	Edible seeds other than cumin seeds	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
242.	Fennel	Edible seeds other than fennel	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
243.	Fenugreek	Edible seeds other than fenugreek	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
244.	Cardamom	Empty and malformed capsules by count (cardamom)	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
245.	Pepper black & white – powder and whole	Bulk density	FSSAI manual of methods of analysis of foods spices and condiments: FSSAI 10.018:2021
246.	Pepper black & white – powder and whole	Insect damaged matter	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
247.	Pepper black & white – powder and whole	Light berries	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
248.	Pepper black & white – powder and whole	Other foreign edible seeds	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
249.	Pepper black & white – powder and whole	Piperine content on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.020:2021
250.	Pepper black & white – powder and whole	Pinhead or broken berries	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
251.	Pepper black & white – powder and whole	Detection of mineral oil	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.023:2021
252.	Saffron	Bitterness expressed as direct reading of absorbance of picrocrocine at about 257 nm (ODB)	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.028:2021
253.	Saffron	Colouring strength expressed as direct reading of absorbance of 440 nm (ODB)	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.028:2021
254.	Saffron	Extraneous matter	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.026:2021
255.	Saffron	Extraneous matter	IS 1797:2017 Reaff. 2021
256.	Saffron	Floral waste	FSSAI manual of methods of analysis of foods spices and condiments: FSSAI 10.002:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
257.	Saffron	Moisture and volatile matter	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.027:2021
258.	Saffron	Moisture and volatile matter at 103 +2° C	IS 5453(Part 2):2016 Reaff. 2021
259.	Saffron	Safranal expressed as direct reading of absorbance of 330 nm (ODB) on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.028:2021
260.	Saffron	Total nitrogen on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.029:2021
261.	Cloves	Headless cloves	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
262.	Cloves	Insect damaged cloves	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
263.	Cloves	Khokar cloves	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
264.	Cloves	Tendrils, mother cloves	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
265.	Dehydrated garlic and onion	Peroxidase test	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.040:2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
266.	Curry powder, mixed masala powder	Edible common salt	IS 1797:2017 Reaff. 2021
267.	Mustard (rai, sarson) powder	Test for argemone oil	FSSAI manual of methods of analysis of foods oil and fats FSSAI 02.032:2021
268.	Mustard (rai, sarson) whole	Detection of argemone seeds	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.015:2021 followed by FSSAI manual of methods of analysis of foods oil and fats FSSAI 02.032:2021
269.	Turmeric (powdered and finger)	Colouring power expressed as curcuminoid content on dry basis	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.031:2021
270.	Turmeric (haldi)	Defective rhizomes	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
271.	Turmeric (powdered and finger)	Extraneous colouring matter	FSSAI Manual of Methods of analysis Of Foods, Food Additives; 4.2
272.	Turmeric (powdered and finger)	Extraneous matter	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.002:2021
273.	Turmeric (powdered and finger)	Foreign vegetable matter	TPM/MSK/F/32/A

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
274.	Turmeric (powdered and finger)	Free from extraneous flavour and mustiness	TPM/MSK/F/32/A
275.	Turmeric (powdered and finger)	Starch	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.032:2021
276.	Turmeric (powdered and finger)	Odour	TPM/MSK/F/32/A
277.	Turmeric (powdered and finger)	Test for lead chromate	FSSAI manual of methods of analysis of foods spices and condiments FSSAI 10.033:2021
278.	Herbs, spices, seasonings and condiments	Phosphates	TPM/MSK/F/39
279.	Herbs, spices, seasonings and condiments	Sulfites	AOAC (22nd Edition) 990.28
280.	Herbs, spices, seasonings and condiments	Acesulfame K	TPM/MSK/INST./136
281.	Herbs, spices, seasonings and condiments	Aspartame	TPM/MSK/INST./136
282.	Herbs, spices, seasonings and condiments	Benzoate	TPM/MSK/INST./136
283.	Herbs, spices, seasonings and condiments	Propyl gallate	TPM/MSK/INST-151
284.	Herbs, spices, seasonings and condiments	Butylated hydroxyanisole (BHA)	TPM/MSK/INST-151

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
285.	Herbs, spices, seasonings and condiments	Tert-Butylated hydroxyquinone (TBHQ)	TPM/MSK/INST-151
286.	Herbs, spices, seasonings and condiments	Butylated hydroxytoluene (BHT)	TPM/MSK/INST-151
287.	Tea (black tea/ green tea)	Acid insoluble ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.007:2023
288.	Tea (black tea/ green tea)	Acid insoluble ash	IS 13857:1993 Reaff. 2023
289.	Tea (black tea/ green tea)	Alkalinity of water-soluble ash expressed as KOH	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.009:2023
290.	Tea (black tea/ green tea)	Alkalinity of water-soluble ash expressed as KOH	IS 13856:1993 Reaff. 2023
291.	Tea (black tea/ green tea)	Crude fiber	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.018:2023
292.	Tea (black tea/ green tea)	Crude fiber	IS 16041:2012 Reaff. 2022
293.	Tea (black tea/ green tea)	Loss in mass at 103°C	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.001:2023
294.	Tea (black tea/ green tea)	Loss in mass at 103°C	IS 13853:1994 Reaff. 2023
295.	Tea (black tea/ green tea)	Fat	TPM/MSK/F/14/N

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
296.	Tea (black tea/ green tea)	Free from extraneous matter	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.022:2023
297.	Tea (black tea/ green tea)	Free from living and dead insects, insect fragments	TPM/MSK/F/34/A
298.	Tea (black tea/ green tea)	Free from moulds	TPM/MSK/F/34/A
299.	Tea (black tea/ green tea)	Free off odour, taint, mustiness	TPM/MSK/F/34/A
300.	Tea (black tea/ green tea)	Iron filings	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.021:2023
301.	Tea (black tea/ green tea)	Iron filings	IS 3633:2024
302.	Tea (black tea/ green tea)	pH	TPM/MSK/F/14/M
303.	Tea (black tea/ green tea)	Protein	IS 7219:1973 Reaff. 2020
304.	Tea (black tea/ green tea)	Rodent contamination	TPM/MSK/F/34/A
305.	Tea (black tea/ green tea)	Total aflatoxin	TPM/MSK/F/38
306.	Tea (black tea/ green tea)	Total ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.003:2023
307.	Tea (black tea/ green tea)	Total ash	IS 13854:1994 Reaff. 2019
308.	Tea (black tea/ green tea)	Total polyphenols	ISO 14502-1:2015 Reviewed 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
309.	Tea (black tea/ green tea)	Aqueous extract	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.010:2023
310.	Tea (black tea/ green tea)	Water extract	IS 13862:1999 Reaff. 2023
311.	Tea (black tea/ green tea)	Water soluble ash of total ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.006:2023
312.	Tea (black tea/ green tea)	Water soluble ash of total ash	IS 13855:1993 Reaff. 2023
313.	Tea	Added coloring matter	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory FSSAI 04A.020:2023
314.	Tea	Phosphates	TPM/MSK/F/39
315.	Tea	Acesulfame potassium	TPM/MSK/INST./136
316.	Tea	Aspartame	TPM/MSK/INST./136
317.	Tea	Benzoates	TPM/MSK/INST./136
318.	Tea	Sorbates	TPM/MSK/INST./136
319.	Tea	Saccharins	TPM/MSK/INST./136
320.	Tea	Caffeine	TPM/MSK/INST./136
321.	Biscuits, cakes, chips, wafers, pastry, brownie, muffin, khari, toast, cookies, rusk	Acidity of extracted fat (as oleic acid)	IS 12711:1989 Reaff. 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
322.	Biscuits, cakes, chips, wafers, pastry, brownie, muffin, khari, toast, cookies, rusk	Added colouring matter	FSSAI Manual of Methods of analysis Of Foods, Food Additives; 4.2
323.		Alcoholic acidity (with 90% alcohol)	IS 12711:1989 Reaff. 2020
324.		Alcoholic acidity (with 90% alcohol)	FSSAI manual of methods of analysis of foods Cereal & Cereal Products FSSAI 03.015:2023
325.		Ash	IS 12711:1989 Reaff. 2020
326.		Ash insoluble in dilute hydrochloric acid (on dry basis)	IS 12711:1989 Reaff. 2020
327.		Carbohydrate	TPM/MSK/F/16E
328.		Crude fibre	IS 12711:1989 Reaff. 2020
329.		Dietary fibres	AOAC Official Method (22nd Edtn.) 985.29
330.		Energy	TPM/MSK/F/16E
331.		Fat	IS 12711:1989 Reaff. 2020
332.		Insect and insect fragments	TPM/MSK/F/14/G
333.		Moisture	IS 12711:1989 Reaff. 2020
334.		pH	IS 12711:1989 Reaff. 2020
335.		Protein	IS 7219:1973 Reaff. 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
336.	Biscuits, cakes, chips, wafers, pastry, brownie, muffin, khari, toast, cookies, rusk	Rodent hairs	TPM/MSK/F/14/G
337.		Salt as sodium chloride	TPM/MSK/F/14/L
338.		Total aflatoxin	TPM/MSK/F/38
339.		Total sugar	TPM/MSK/F/14K
340.		Vitamin-C	IS 5838:1970 Reaff. 2020
341.		Phosphate	TPM/MSK/F/39
342.		Sulphites	AOAC Official Method (22nd Edtn.) 990.28
343.		Acesulfame potassium	TPM/MSK/INST./136
344.		Aspartame	TPM/MSK/INST./136
345.		Benzoates	TPM/MSK/INST./136
346.		Sorbates	TPM/MSK/INST./136
347.		Caffeine	TPM/MSK/INST./136
348.		Tartrazine	TPM/MSK/INST-149
349.		Brilliant blue FCF	TPM/MSK/INST-149
350.		Carmoisine	TPM/MSK/INST-149
351.	Erythrosine	TPM/MSK/INST-149	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
352.	Biscuits, cakes, chips, wafers, pastry, brownie, muffin, khari, toast, cookies, rusk	Fast green FCF	TPM/MSK/INST-149
353.		Indigo carmine	TPM/MSK/INST-149
354.		Ponceau 4R	TPM/MSK/INST-149
355.		Sunset yellow	TPM/MSK/INST-149
356.		Saccharins	TPM/MSK/INST./136
357.		Bread, bun	Ash insoluble in dilute hydrochloric acid (on dry basis)
358.	Bread, bun	Alcoholic acidity (with 90% alcohol)	FSSAI manual of methods of analysis of foods Cereal & Cereal Products FSSAI 03.027:2023
359.	Bread, bun	Ash	IS 12711:1989 Reaff. 2020
360.	Bread, bun	Carbohydrate	TPM/MSK/F/16 E
361.	Bread, bun	Dirt	TPM/MSK/F/14/G
362.	Bread, bun	Energy	TPM/MSK/F/16 E
363.	Bread, bun	Fat	IS 12711:1989 Reaff. 2020
364.	Bread, bun	Insect and insect fragments, larvae	TPM/MSK/F/14/G
365.	Bread, bun	Moisture	IS 1483:1988 Reaff. 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural Products			
366.	Bread, bun	pH	IS 1483:1988 Reaff. 2020
367.	Bread, bun	Protein	IS 7219:1973 Reaff. 2020
368.	Bread, bun	Rodent hairs	TPM/MSK/F/14/G
369.	Bread, bun	Salt (As Sodium Chloride)	TPM/MSK/F/14/L
370.	Bread, bun	Total Aflatoxin	TPM/MSK/F/38
371.	Bread, bun	Total Sugar	TPM/MSK/F/14K
372.	Bread, bun	Phosphate	TPM/MSK/F/39
373.	Candy, lolly, logenze, ice lollies, edible ice	Free from filth	TPM/MSK/F/17/A
374.	Candy, lolly, logenze, ice lollies, edible ice	Free from dirt	TPM/MSK/F/17/A
375.	Candy, lolly, logenze, ice lollies, edible ice	Free from fungus infestation	TPM/MSK/F/17/A
376.	Candy, lolly, logenze, ice lollies, edible ice	Adulterants and harmful ingredients	TPM/MSK/F/17/A
377.	Candy, lolly, logenze, ice lollies, edible ice	Free from insect	TPM/MSK/F/17/A
378.	Candy, lolly, logenze, ice lollies, edible ice	Ash insoluble in dilute Hydrochloric acid	IS 6287:1985 Reaff. 2020
379.	Candy, lolly, logenze, ice lollies, edible ice	Ash sulphated (on salt free basis)	IS 6287:1985 Reaff. 2020
380.	Candy, lolly, logenze, ice lollies, edible ice	Added colouring matter	FSSAI Manual of Methods of analysis Of Foods, Food Additives: 4.2

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
381.	Candy, lolly, logenze, ice lollies, edible ice	Total protein (N x 6.25)	IS 7219:1973 Reaff. 2020
382.	Candy, lolly, logenze, ice lollies, edible ice	Fat	IS 6287:1985 Reaff. 2020
383.	Candy, lolly, logenze, ice lollies, edible ice	Sucrose	IS 6287:1985 Reaff. 2020
384.	Candy, lolly, logenze, ice lollies, edible ice	Carbohydrate	TPM/MSK/F/16 E
385.	Candy, lolly, logenze, ice lollies, edible ice	Energy	TPM/MSK/F/16 E
386.	Candy, lolly, logenze, ice lollies, edible ice	Phosphate	TPM/MSK/F/39
387.	Candy, lolly, logenze, ice lollies, edible ice	Acesulfame potassium	TPM/MSK/INST./136
388.	Candy, lolly, logenze, ice lollies, edible ice	Aspartame	TPM/MSK/INST./136
389.	Candy, lolly, logenze, ice lollies, edible ice	Saccharins	TPM/MSK/INST./136
390.	Candy, lolly, logenze, ice lollies, edible ice	Caffeine	TPM/MSK/INST./136
391.	Candy, lolly, logenze, ice lollies, edible ice	Benzoates	TPM/MSK/INST./136
392.	Candy, lolly, logenze, ice lollies, edible ice	Sorbates	TPM/MSK/INST./136
393.	Candy, lolly, logenze, ice lollies, edible ice	Brilliant blue FCF	TPM/MSK/INST-149

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
394.	Candy, lolly, logenze, ice lollies, edible ice	Butylated hydroxyanisole (BHA)	TPM/MSK/INST-151
395.	Candy, lolly, logenze, ice lollies, edible ice	Butylated hydroxytoluene (BHT)	TPM/MSK/INST-151
396.	Candy, lolly, logenze, ice lollies, edible ice	Fast green FCF	TPM/MSK/INST-149
397.	Candy, lolly, logenze, ice lollies, edible ice	Indigo carmine	TPM/MSK/INST-149
398.	Candy, lolly, logenze, ice lollies, edible ice	Ponceau 4R	TPM/MSK/INST-149
399.	Candy, lolly, logenze, ice lollies, edible ice	Sunset yellow FCF	TPM/MSK/INST-149
400.	Candy, lolly, logenze, ice lollies, edible ice	Tertiary butylhydroquinone (TBHQ)	TPM/MSK/INST-151
401.	Candy, lolly, logenze, ice lollies, edible ice	Carmoisine	TPM/MSK/INST-149
402.	Candy, lolly, logenze, ice lollies, edible ice	Erythrosine	TPM/MSK/INST-149
403.	Candy, lolly, logenze, ice lollies, edible ice	Tartrazine	TPM/MSK/INST-149
404.	Chocolate (milk chocolate, milk covering chocolate, plain chocolate, plain covering chocolate, white chocolate blended chocolate)	Cocoa solid (on moisture and fat free basis)	AOAC Official Method (22nd Edtn.) 931.05

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
Food & Agricultural Products				
405.	Chocolate (milk chocolate, milk covering chocolate, plain chocolate, plain covering chocolate, white chocolate blended chocolate)	Milk solids (on Moisture free and Fat free Basis)	IS 1163:2023	
406.		Sugar (sucrose) (on dry basis)	IS 1163:2023	
407.		Dietary fibres	AOAC Official Method (22nd Edtn.) 985.29	
408.		Energy	TPM/MSK/F/16E	
409.		Total fat (on dry basis)	IS 1163:2023	
410.		Milk fat (on dry basis)	IS 1163:2023	
411.		Acid insoluble ash (on moisture fat and sugar free basis)	IS 1163:2023	
412.		Phosphates	TPM/MSK/F/39	
413.		Acesulfame potassium	TPM/MSK/INST./136	
414.		Benzoates	TPM/MSK/INST./136	
415.		Sorbates	TPM/MSK/INST./136	
416.		Saccharins	TPM/MSK/INST./136	
417.		Chewing gum, bubble gum	Free from filth	TPM/MSK/F/17/A
418.		Chewing gum, bubble gum	Free from dirt	TPM/MSK/F/17/A
419.		Chewing gum, bubble gum	Free from fungus infestation	TPM/MSK/F/17/A
420.		Chewing gum, bubble gum	Adulterants and harmful ingredients	TPM/MSK/F/17/A

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
421.	Chewing gum, bubble gum	Free from insect	TPM/MSK/F/17/A
422.	Chewing gum, bubble gum	Free from rancidity or off odour	TPM/MSK/F/17/A
423.	Chewing gum, bubble gum	Gum content	IS 6747:2018
424.	Chewing gum, bubble gum	Moisture	IS 6287:1985 Reaff. 2020
425.	Chewing gum, bubble gum	Acid insoluble ash	IS 6287:1985 Reaff. 2020
426.	Chewing gum, bubble gum	Sulphated Ash	IS 6287:1985 Reaff. 2020
427.	Chewing gum, bubble gum	Reducing sugars (calculated as dextrose)	IS 6287:1985 Reaff. 2020
428.	Chewing gum, bubble gum	Sucrose	IS 6287:1985 Reaff. 2020
429.	Chewing gum, bubble gum	Phosphate	TPM/MSK/F/39
430.	Chewing gum, bubble gum	Total Aflatoxin	TPM/MSK/F/38
431.	Chewing gum, bubble gum	Carmoisine	TPM/MSK/INST-149
432.	Chewing gum, bubble gum	Tartrazine	TPM/MSK/INST-149
433.	Chewing gum, bubble gum	Acesulfame potassium	TPM/MSK/INST./136
434.	Chewing gum, bubble gum	Aspartame	TPM/MSK/INST./136
435.	Chewing gum, bubble gum	Benzoates	TPM/MSK/INST./136
436.	Chewing gum, bubble gum	Brilliant blue FCF	TPM/MSK/INST-149
437.	Chewing gum, bubble gum	Butylated hydroxyanisole (BHA)	TPM/MSK/INST-151
438.	Chewing gum, bubble gum	Butylated hydroxytoluene (BHT)	TPM/MSK/INST-151

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(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Mitra S. K. Private Limited

Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road,
Kolkata - 700015, West Bengal, India

QAI/CIA/TL/2024/0094

Valid from: 31 December 2024

Valid until: 30 December 2026

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
439.	Chewing gum, bubble gum	Indigo carmine	TPM/MSK/INST-149
440.	Chewing gum, bubble gum	Saccharins	TPM/MSK/INST./136
441.	Chewing gum, bubble gum	Sorbates	TPM/MSK/INST./136
442.	Chewing gum, bubble gum	Sunset yellow FCF	TPM/MSK/INST-149
443.	Chewing gum, bubble gum	Tertiary butylhydroqui none (TBHQ)	TPM/MSK/INST-151
444.	Bakery and confectionery products	Butylated hydroxyanisole (BHA)	TPM/MSK/INST-151
445.	Bakery and confectionery products	Butylated hydroxytoluene (BHT)	TPM/MSK/INST-151
446.	Bakery and confectionery products	Tert-butyl hydroxyquinone (TBHQ)	TPM/MSK/INST-151
447.	Bakery and confectionery products	Cholesterol	TPM/MSK/INST-152

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
1.	Waste water (effluents/sewage)	Bioassay method of evaluating toxicity using fish (90% survival of fish after 96 hrs in 100% effluent)	IS 6582 (Part-2) 2001
2.	Waste water (effluents/sewage)	Colour	APHA 24th Edition, 2023 2120B
3.	Waste water (effluents/sewage)	Odour	APHA 24th Edition, 2023 2150B
4.	Waste water (effluents/sewage)	Odour	IS 3025 (Part 5) 2018
5.	Waste water (effluents/sewage)	pH	APHA 24th Edition, 2023 4500-H+B
6.	Waste water (effluents/sewage)	pH	IS 3025 (Part 11) 2022
7.	Waste water (effluents/sewage)	Conductivity	APHA 24th Edition, 2023 2510B
8.	Waste water (effluents/sewage)	Conductivity	IS 3025 (Part 14) 2013
9.	Waste water (effluents/sewage)	Temperature	APHA 24th Edition, 2023 2550B
10.	Waste water (effluents/sewage)	Temperature	IS 3025 (Part 9) 2023
11.	Waste water (effluents/sewage)	Total suspended solid	APHA 24th Edition, 2023 2540D
12.	Waste water (effluents/sewage)	Total suspended solid	IS 3025 (Part 17) 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
13.	Waste water (effluents/sewage)	Total dissolved solid	APHA 24th Edition, 2023 2540C
14.	Waste water (effluents/sewage)	Total dissolved solid	IS 3025 (Part 16) 2023
15.	Waste water (effluents/sewage)	Fixed solids	APHA 24th Edition, 2023 2540E
16.	Waste water (effluents/sewage)	Volatile solids	APHA 24th Edition, 2023 2540E
17.	Waste water (effluents/sewage)	Total solids	APHA 24th Edition, 2023 2540B
18.	Waste water (effluents/sewage)	Total solids	IS 3025 (Part 15) 2003
19.	Waste water (effluents/sewage)	Turbidity	APHA 24th Edition, 2023 2130B
20.	Waste water (effluents/sewage)	Turbidity	IS 3025 (Part 10) 2023
21.	Waste water (effluents/sewage)	Dissolved oxygen	APHA 24th Edition, 2023 4500-O-C
22.	Waste water (effluents/sewage)	Dissolved oxygen	APHA 24th Edition, 2023 4500-O-G
23.	Waste water (effluents/sewage)	Dissolved oxygen	IS 3025 (Part 38) 1989
24.	Waste water (effluents/sewage)	Biochemical oxygen demand (BOD) 3 days at 27° C	IS 3025 (Part 44) 2023
25.	Waste water (effluents/sewage)	Chemical oxygen demand (COD)	APHA 24th Edition, 2023 5220B

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
26.	Waste water (effluents/sewage)	Oil and grease	APHA 24th Edition, 2023 5520B
27.	Waste water (effluents/sewage)	Oil and grease	IS 3025 (Part 39) 2021
28.	Waste water (effluents/sewage)	Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B
29.	Waste water (effluents/sewage)	Alkalinity (CaCO ₃)	IS 3025 (Part 23) 2023
30.	Waste water (effluents/sewage)	P Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B
31.	Waste water (effluents/sewage)	P Alkalinity (CaCO ₃)	IS 3025 (Part 23) 2023
32.	Waste water (effluents/sewage)	M Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B
33.	Waste water (effluents/sewage)	M Alkalinity (CaCO ₃)	IS 3025 (Part 23) 2023
34.	Waste water (effluents/sewage)	Bicarbonate (CaCO ₃)	APHA 24th Edition, 2023 2320 B
35.	Waste water (effluents/sewage)	Carbonate as (CaCO ₃)	APHA 24th Edition, 2023 2320 B
36.	Waste water (effluents/sewage)	Ammoniacal nitrogen (N)	APHA 24th Edition, 2023 4500 NH ₃ -F
37.	Waste water (effluents/sewage)	Total Kjeldahl nitrogen	APHA 24th Edition, 2023 4500 Norg – B
38.	Waste water (effluents/sewage)	Nitrate (N)	APHA 24th Edition, 2023 4500 NO ₃ - E

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
39.	Waste water (effluents/sewage)	Nitrate (N)	IS 3025 (Part 34) 1988
40.	Waste water (effluents/sewage)	Nitrate (NO ₃)	APHA 24th Edition, 2023 4500 NO3- E
41.	Waste water (effluents/sewage)	Nitrate (NO ₃)	IS 3025 (Part 34) 1988
42.	Waste water (effluents/sewage)	Nitrite (N)	APHA 24th Edition, 2023 4500 NO2-B
43.	Waste water (effluents/sewage)	Nitrite (N)	IS 3025 (Part 34) 1988
44.	Waste water (effluents/sewage)	Nitrite (NO ₂)	APHA 24th Edition, 2023 4500 NO2-B
45.	Waste water (effluents/sewage)	Nitrite (NO ₂)	IS 3025 (Part 34) 1988
46.	Waste water (effluents/sewage)	Phosphorus (P)	APHA 24th Edition, 2023 4500P-E
47.	Waste water (effluents/sewage)	Phosphorus (P)	IS 3025 (Part 31) Sec 1:2022
48.	Waste water (effluents/sewage)	Phosphorus (PO ₄)	APHA 24th Edition, 2023 4500P-E
49.	Waste water (effluents/sewage)	Phosphorus (PO ₄)	IS 3025 (Part 31) Sec 1:2022
50.	Waste water (effluents/sewage)	Sulphate (SO ₄)	APHA 24th Edition, 2023 4500 SO42- E
51.	Waste water (effluents/sewage)	Sulphide (S)	APHA 24th Edition, 2023 4500 S2- D

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
52.	Waste water (effluents/sewage)	Sulphide (S)	IS 3025 (Part 29) 2022
53.	Waste water (effluents/sewage)	Anionic surfactants as MBAS	APHA 24th Edition, 2023 5540 C
54.	Waste water (effluents/sewage)	Cyanide (CN)	APHA 24th Edition, 2023 4500 CN- F
55.	Waste water (effluents/sewage)	Cyanide (CN)	IS 3025 (Part 27) 2021
56.	Waste water (effluents/sewage)	Chloride (Cl)	APHA 24th Edition, 2023 4500Cl-B
57.	Waste water (effluents/sewage)	Chloride (Cl)	IS 3025 (Part 32) 1988
58.	Waste water (effluents/sewage)	Fluoride (F)	APHA 24th Edition, 2023 4500 F-C
59.	Waste water (effluents/sewage)	Phenolic Compounds (C ₆ H ₅ OH)	APHA 24th Edition, 2023 5530D
60.	Waste water (effluents/sewage)	Phenolic Compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec 1 :2022
61.	Waste water (effluents/sewage)	Salinity	APHA 24th Edition, 2023 2520B
62.	Waste water (effluents/sewage)	Residual free chlorine/free residual chlorine/residual chlorine	IS 3025 (Part 26) 2021
63.	Waste water (effluents/sewage)	Sodium adsorption ratio	IS 11624 :2019
64.	Waste water (effluents/sewage)	Particle size of suspended solid	TPM/MSK/P&E/3/2 Issue No - 04, Issue Date -January 02: 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
65.	Waste water (effluents/sewage)	Hexavalent chromium (Cr(VI))	APHA 24th Edition, 2023 3500 Cr B
66.	Waste water (effluents/sewage)	Sodium (Na)	APHA 24th Edition, 2023 3500 Na B
67.	Waste water (effluents/sewage)	Potassium (K)	APHA 24th Edition, 2023 3500 K B
68.	Waste water (effluents/sewage)	Silica (SiO ₂)	APHA 24th Edition, 2023 4500 SiO ₂ C
69.	Waste water (effluents/sewage)	Silica (SiO ₂)	IS 3025 (Part 35) 1988
70.	Waste water (effluents/sewage)	Total hardness (CaCO ₃)	APHA 24th Edition, 2023: 2340 B
71.	Waste water (effluents/sewage)	Silver (Ag)	APHA (24th Edition)3120 B :2023
72.	Waste water (effluents/sewage)	Aluminium (Al)	APHA (24th Edition)3120 B :2023
73.	Waste water (effluents/sewage)	Barium (Ba)	APHA (24th Edition)3120 B :2023
74.	Waste water (effluents/sewage)	Cadmium (Ca)	APHA (24th Edition)3120 B :2023
75.	Waste water (effluents/sewage)	Cobalt (Co)	APHA (24th Edition)3120 B :2023
76.	Waste water (effluents/sewage)	Chromium (Cr)	APHA (24th Edition)3120 B :2023
77.	Waste water (effluents/sewage)	Copper (Cu)	APHA (24th Edition)3120 B :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
78.	Waste water (effluents/sewage)	Manganese (Mn)	APHA (24th Edition)3120 B :2023
79.	Waste water (effluents/sewage)	Molybdenum (Mo)	APHA (24th Edition)3120 B :2023
80.	Waste water (effluents/sewage)	Nickel (Ni)	APHA (24th Edition)3120 B :2023
81.	Waste water (effluents/sewage)	Lead (Pb)	APHA (24th Edition)3120 B :2023
82.	Waste water (effluents/sewage)	Vanadium (V)	APHA (24th Edition)3120 B :2023
83.	Waste water (effluents/sewage)	Zinc (Zn)	APHA (24th Edition)3120 B :2023
84.	Waste water (effluents/sewage)	Mercury (Hg)	TPM/MSK/INST/170
85.	Waste water (effluents/sewage)	Calcium (Ca)	APHA (24th Edition)3120 B :2023
86.	Waste water (effluents/sewage)	Magnesium (Mg)	APHA (24th Edition)3120 B :2023
87.	Waste water (effluents/sewage)	Arsenic (As)	APHA (24th Edition)3114 C :2023
88.	Waste water (effluents/sewage)	Selenium (Se)	APHA (24th Edition)3114 C :2023
89.	Waste water (effluents/sewage)	Boron (B)	APHA (24th Edition)3120 B :2023
90.	Waste water (effluents/sewage)	Iron (Fe)	APHA (24th Edition)3120 B :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
91.	Waste water (effluents/sewage)	p,p'- DDT	TPM/MSK/INST-161
92.	Waste water (effluents/sewage)	o,p DDT	TPM/MSK/INST-161
93.	Waste water (effluents/sewage)	o,p DDE	TPM/MSK/INST-161
94.	Waste water (effluents/sewage)	p,p DDE	TPM/MSK/INST-161
95.	Waste water (effluents/sewage)	o,p DDD	TPM/MSK/INST-161
96.	Waste water (effluents/sewage)	p,p DDD	TPM/MSK/INST-161
97.	Waste water (effluents/sewage)	α -HCH	TPM/MSK/INST-161
98.	Waste water (effluents/sewage)	β -HCH	TPM/MSK/INST-161
99.	Waste water (effluents/sewage)	γ - HCH	TPM/MSK/INST-161
100.	Waste water (effluents/sewage)	δ - HCH	TPM/MSK/INST-161
101.	Waste water (effluents/sewage)	α -Endosulfan	TPM/MSK/INST-161
102.	Waste water (effluents/sewage)	β -Endosulfan	TPM/MSK/INST-161
103.	Waste water (effluents/sewage)	Endosulfan sulphate	TPM/MSK/INST-161

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
104.	Waste water (effluents/sewage)	Heptachlor	TPM/MSK/INST-161
105.	Waste water (effluents/sewage)	Heptachlor epoxide	TPM/MSK/INST-161
106.	Waste water (effluents/sewage)	Endrin	TPM/MSK/INST-161
107.	Waste water (effluents/sewage)	Endrin aldehyde	TPM/MSK/INST-161
108.	Waste water (effluents/sewage)	Endrin ketone	TPM/MSK/INST-161
109.	Waste water (effluents/sewage)	Aldrin	TPM/MSK/INST-161
110.	Waste water (effluents/sewage)	Dieldrin	TPM/MSK/INST-161
111.	Waste water (effluents/sewage)	Chlordane	TPM/MSK/INST-161
112.	Waste water (effluents/sewage)	Acenaphthylen	TPM/MSK/INST-162
113.	Waste water (effluents/sewage)	Chrysene	TPM/MSK/INST-162
114.	Waste water (effluents/sewage)	Heptane	TPM/MSK/INST-157
115.	Waste water (effluents/sewage)	n-Octane	TPM/MSK/INST-157
116.	Waste water (effluents/sewage)	Decane	TPM/MSK/INST-157

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
117.	Waste water (effluents/sewage)	n-Dodecane	TPM/MSK/INST-157
118.	Waste water (effluents/sewage)	Tetradecane	TPM/MSK/INST-157
119.	Waste water (effluents/sewage)	n-Hexadecane	TPM/MSK/INST-157
120.	Waste water (effluents/sewage)	n-Octadecane	TPM/MSK/INST-157
121.	Waste water (effluents/sewage)	n-Eicosane	TPM/MSK/INST-157
122.	Waste water (effluents/sewage)	n-Docosane	TPM/MSK/INST-157
123.	Waste water (effluents/sewage)	n-Tertracosane	TPM/MSK/INST-157
124.	Waste water (effluents/sewage)	n-Octacosane	TPM/MSK/INST-157
125.	Waste water (effluents/sewage)	n-Dotriacontane	TPM/MSK/INST-157
126.	Waste water (effluents/sewage)	n-Tetretriacontane	TPM/MSK/INST-157
127.	Waste water (effluents/sewage)	n-Hexatriacontane	TPM/MSK/INST-157
128.	Waste water (effluents/sewage)	Octatriacontane	TPM/MSK/INST-157
129.	Waste water (effluents/sewage)	Acenaphthene	TPM/MSK/INST-162

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
130.	Waste water (effluents/sewage)	Anthracene	TPM/MSK/INST-162
131.	Waste water (effluents/sewage)	Benzo[a]Anthracene	TPM/MSK/INST-162
132.	Waste water (effluents/sewage)	Benzo[a]Pyrene	TPM/MSK/INST-162
133.	Waste water (effluents/sewage)	Benzo[b]Fluoranthene	TPM/MSK/INST-162
134.	Waste water (effluents/sewage)	Benzo[ghi]Perylene	TPM/MSK/INST-162
135.	Waste water (effluents/sewage)	Benzo[k]Fluoranthene	TPM/MSK/INST-162
136.	Waste water (effluents/sewage)	Pyrene	TPM/MSK/INST-162
137.	Waste water (effluents/sewage)	Fluoranthene	TPM/MSK/INST-162
138.	Waste water (effluents/sewage)	Fluorene	TPM/MSK/INST-162
139.	Waste water (effluents/sewage)	Naphthalene	TPM/MSK/INST-162
140.	Waste water (effluents/sewage)	Phenanthrene	TPM/MSK/INST-162
141.	Waste water (effluents/sewage)	Dibenz(ah)Anthracene	TPM/MSK/INST-162
142.	Waste water (effluents/sewage)	Indeno(1,2,3-cd) Pyrene	TPM/MSK/INST-162

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
143.	Waste water (effluents/sewage)	Benzo(B)Fluoranthene	TPM/MSK/INST-162
144.	Cooling tower / cooling tower blow down/ash pond	pH	APHA 24th Edition, 2023 4500-H+B
145.	Cooling tower / cooling tower blow down/ash pond	pH	IS 3025 (Part 11) 2022
146.	Cooling tower / cooling tower blow down/ash pond	Conductivity	APHA 24th Edition, 2023 2510B
147.	Cooling tower / cooling tower blow down/ash pond	Conductivity	IS 3025 (Part 14) 2013
148.	Cooling tower / cooling tower blow down/ash pond	Temperature	APHA 24th Edition, 2023 2550B
149.	Cooling tower / cooling tower blow down/ash pond	Temperature	IS 3025 (Part 9) 2023
150.	Cooling tower / cooling tower blow down/ash pond	Total suspended solid	APHA 24th Edition, 2023 2540D
151.	Cooling tower / cooling tower blow down/ash pond	Total suspended solid	IS 3025 (Part 17) 2022
152.	Cooling tower / cooling tower blow down/ash pond	Total dissolved solid	APHA 24th Edition, 2023 2540C
153.	Cooling tower / cooling tower blow down/ash pond	Total dissolved solid	IS 3025 (Part 16) 2023
154.	Cooling tower / cooling tower blow down/ash pond	Total Solids	APHA 24th Edition, 2023 2540B
155.	Cooling tower / cooling tower blow down/ash pond	Total Solids	IS 3025 (Part 15) 2003

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QAI/CIA/TL/2024/0094

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
156.	Cooling tower / cooling tower blow down/ash pond	Turbidity	APHA 24th Edition, 2023 2130B
157.	Cooling tower / cooling tower blow down/ash pond	Turbidity	IS 3025 (Part 10) 2023
158.	Cooling tower / cooling tower blow down/ash pond	Dissolved oxygen	APHA 24th Edition, 2023 4500-O-C
159.	Cooling tower / cooling tower blow down/ash pond	Dissolved oxygen	IS 3025 (Part 38) 1989
160.	Cooling tower / cooling tower blow down/ash pond	Biochemical oxygen demand (BOD) 3 days at 27 °C	IS 3025 (Part 44) 2023
161.	Cooling tower / cooling tower blow down/ash pond	Chemical oxygen demand (COD)	APHA 24th Edition, 2023 5220B
162.	Cooling tower / cooling tower blow down/ash pond	Oil and grease	APHA 24th Edition, 2023 5520B
163.	Cooling tower / cooling tower blow down/ash pond	Oil and grease	IS 3025 (Part 39) 2021
164.	Cooling tower / cooling tower blow down/ash pond	Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B
165.	Cooling tower / cooling tower blow down/ash pond	Alkalinity (CaCO ₃)	IS 3025 (Part 23) 2023
166.	Cooling tower / cooling tower blow down/ash pond	P Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B
167.	Cooling tower / cooling tower blow down/ash pond	P Alkalinity (CaCO ₃)	IS 3025 (Part 23) 2023
168.	Cooling tower / cooling tower blow down/ash pond	M Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
169.	Cooling tower / cooling tower blow down/ash pond	M Alkalinity (CaCO ₃)	IS 3025 (Part 23) 2023
170.	Cooling tower / cooling tower blow down/ash pond	Bicarbonate (CaCO ₃)	APHA 24th Edition, 2023 2320 B
171.	Cooling tower / cooling tower blow down/ash pond	Carbonate (CaCO ₃)	APHA 24th Edition, 2023 2320 B
172.	Cooling tower / cooling tower blow down/ash pond	Ammoniacal nitrogen (N)	APHA 24th Edition, 2023 4500NH3-F
173.	Cooling tower / cooling tower blow down/ash pond	Total Kjeldahl nitrogen	APHA 24th Edition, 2023 4500 Norg – B
174.	Cooling tower / cooling tower blow down/ash pond	Nitrate (N)	APHA 24th Edition, 2023 4500NO3- E
175.	Cooling tower / cooling tower blow down/ash pond	Nitrate (N)	IS 3025 (Part 34) 1988
176.	Cooling tower / cooling tower blow down/ash pond	Nitrate (NO ₃)	APHA 24th Edition, 2023 4500NO3- E
177.	Cooling tower / cooling tower blow down/ash pond	Nitrate (NO ₃)	IS 3025 (Part 34) 1988
178.	Cooling tower / cooling tower blow down/ash pond	Nitrite (N)	APHA 24th Edition, 2023 4500 NO2-B
179.	Cooling tower / cooling tower blow down/ash pond	Nitrite (N)	IS 3025 (Part 34) 1988
180.	Cooling tower / cooling tower blow down/ash pond	Nitrite (NO ₂)	APHA 24th Edition, 2023 4500 NO2-B
181.	Cooling tower / cooling tower blow down/ash pond	Nitrite (NO ₂)	IS 3025 (Part 34) 1988

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
182.	Cooling tower / cooling tower blow down/ash pond	Phosphorus (P)	APHA 24th Edition, 2023 4500P-E
183.	Cooling tower / cooling tower blow down/ash pond	Phosphorus (P)	IS 3025 (Part 31) Sec 1:2022
184.	Cooling tower / cooling tower blow down/ash pond	Phosphorus (PO ₄)	APHA 24th Edition, 2023 4500P-E
185.	Cooling tower / cooling tower blow down/ash pond	Phosphorus (PO ₄)	IS 3025 (Part 31) Sec 1:2022
186.	Cooling tower / cooling tower blow down/ash pond	Sulphate (SO ₄)	APHA 24th Edition, 2023 4500 SO42- E
187.	Cooling tower / cooling tower blow down/ash pond	Cyanide (CN)	APHA 24th Edition, 2023 4500 CN- F
188.	Cooling tower / cooling tower blow down/ash pond	Cyanide (CN)	IS 3025 (Part 27) 2021
189.	Cooling tower / cooling tower blow down/ash pond	Chloride (Cl)	APHA 24th Edition, 2023 4500Cl-B
190.	Cooling tower / cooling tower blow down/ash pond	Chloride (Cl)	IS 3025 (Part 32) 1988
191.	Cooling tower / cooling tower blow down/ash pond	Fluoride (F)	APHA 24th Edition, 2023 4500 F-C
192.	Cooling tower / cooling tower blow down/ash pond	Phenolic compounds (C ₆ H ₅ OH)	APHA 24th Edition, 2023 5530D
193.	Cooling tower / cooling tower blow down/ash pond	Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec 1 :2022
194.	Cooling tower / cooling tower blow down/ash pond	Residual free chlorine/free residual chlorine/residual chlorine	IS 3025 (Part 26) 2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
195.	Cooling tower / cooling tower blow down/ash pond	Hexavalent chromium (Cr(VI))	APHA 24th Edition, 2023 3500 Cr B
196.	Cooling tower / cooling tower blow down/ash pond	Sodium (Na)	APHA 24th Edition, 2023 3500 Na B
197.	Cooling tower / cooling tower blow down/ash pond	Potassium (K)	APHA 24th Edition, 2023 3500 K B
198.	Cooling tower / cooling tower blow down/ash pond	Silica (SiO ₂)	APHA 24th Edition, 2023 4500 SiO ₂ C
199.	Cooling tower / cooling tower blow down/ash pond	Silica (SiO ₂)	IS 3025 (Part 35) 1988
200.	Cooling tower / cooling tower blow down/ash pond	Total hardness (CaCO ₃)	APHA 24th Edition, 2023: 2340 B
201.	Cooling tower / cooling tower blow down/ash pond	Silver (Ag)	APHA (24th Edition)3120 B :2023
202.	Cooling tower / cooling tower blow down/ash pond	Aluminium (Al)	APHA (24th Edition)3120 B :2023
203.	Cooling tower / cooling tower blow down/ash pond	Barium (Ba)	APHA (24th Edition)3120 B :2023
204.	Cooling tower / cooling tower blow down/ash pond	Cadmium (Cd)	APHA (24th Edition)3120 B :2023
205.	Cooling tower / cooling tower blow down/ash pond	Cobalt (Co)	APHA (24th Edition)3120 B :2023
206.	Cooling tower / cooling tower blow down/ash pond	Chromium (Cr)	APHA (24th Edition)3120 B :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
207.	Cooling tower / cooling tower blow down/ash pond	Copper (Cu)	APHA (24th Edition)3120 B :2023
208.	Cooling tower / cooling tower blow down/ash pond	Manganese (Mn)	APHA (24th Edition)3120 B :2023
209.	Cooling tower / cooling tower blow down/ash pond	Molybdenum (Mo)	APHA (24th Edition)3120 B :2023
210.	Cooling tower / cooling tower blow down/ash pond	Nickel (Ni)	APHA (24th Edition)3120 B :2023
211.	Cooling tower / cooling tower blow down/ash pond	Lead (Pb)	APHA (24th Edition)3120 B :2023
212.	Cooling tower / cooling tower blow down/ash pond	Vanadium (V)	APHA (24th Edition)3120 B :2023
213.	Cooling tower / cooling tower blow down/ash pond	Zinc (Zn)	APHA (24th Edition)3120 B :2023
214.	Cooling tower / cooling tower blow down/ash pond	Mercury (Hg)	TPM/MSK/INST-170
215.	Cooling tower / cooling tower blow down/ash pond	Calcium (Ca)	APHA (24th Edition)3120 B :2023
216.	Cooling tower / cooling tower blow down/ash pond	Magnesium (Mg)	APHA (24th Edition)3120 B :2023
217.	Cooling tower / cooling tower blow down/ash pond	Arsenic (As)	APHA (24th Edition)3114 C :2023
218.	Cooling tower / cooling tower blow down/ash pond	Selenium (Se)	APHA (24th Edition)3114 C :2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
219.	Cooling tower / cooling tower blow down/ash pond	Boron (B)	APHA (24th Edition)3120 B :2023
220.	Cooling tower / cooling tower blow down/ash pond	Iron (Fe)	APHA (24th Edition)3120 B :2023
221.	Marine water	pH	APHA 24th Edition, 2023 4500-H+B
222.	Marine water	Conductivity	APHA 24th Edition, 2023 2510B
223.	Marine water	Salinity	APHA 24th Edition, 2023 2520B
224.	Marine water	Alkalinity (CaCO ₃)	APHA 24th Edition, 2023 2320B
225.	Marine water	Chloride (Cl)	APHA 24th Edition, 2023 4500Cl-B
226.	Marine water	Total dissolved solid	APHA 24th Edition, 2023 2540C
227.	Marine water	Total suspended solid	IS 3025 (Part 17) 2022
228.	Marine water	Oil and grease	APHA 24th Edition, 2023 5520B
229.	Soil/sediment	Nitrite (NO ₂)	TPM/MSK/P&E/1/2 Issue No - 04, Issue Date -January 02: 2023
230.	Soil/sediment	Nitrate (NO ₃)	TPM/MSK/P&E/1/3 Issue No - 04, Issue Date -January 02: 2023
231.	Soil/sediment	Available phosphorus (P)	TPM/MSK/P&E/1/5 Issue No - 04, Issue Date -January 02: 2023
232.	Soil/sediment	Alkalinity (CaCO ₃)	TPM/MSK/P&E/1/6 Issue No - 04, Issue Date -January 02: 2023
233.	Soil/sediment	Bicarbonate	TPM/MSK/P&E/1/7 Issue No - 04, Issue Date -January 02: 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
234.	Soil/sediment	Carbonate	TPM/MSK/P&E/1/8 Issue No - 04, Issue Date -January 02: 2023
235.	Soil/sediment	Chloride	TPM/MSK/P&E/1/11 Issue No - 04, Issue Date -January 02: 2023
236.	Soil/sediment	Available nitrogen	TPM/MSK/P&E/1/12 Issue No - 04, Issue Date -January 02: 2023
237.	Soil/sediment	available sodium (Na)	TPM/MSK/P&E/1/14 Issue No - 04, Issue Date -January 02: 2023
238.	Soil/sediment	Available potassium (K)	TPM/MSK/P&E/1/15 Issue No - 04, Issue Date -January 02: 2023
239.	Soil/sediment	Fluoride	TPM/MSK/P&E/1/16 Issue No - 04, Issue Date -January 02: 2023
240.	Soil/sediment	Texture	TPM/MSK/P&E/1/17 Issue No - 04, Issue Date -January 02: 2023
241.	Soil/sediment	Sand	TPM/MSK/P&E/1/17 Issue No - 04, Issue Date -January 02: 2023
242.	Soil/sediment	Silt	TPM/MSK/P&E/1/17 Issue No - 04, Issue Date -January 02: 2023
243.	Soil/sediment	Clay	TPM/MSK/P&E/1/17 Issue No - 04, Issue Date -January 02: 2023
244.	Soil/sediment	Water holding capacity	TPM/MSK/P&E/1/18 Issue No - 04, Issue Date -January 02: 2023
245.	Soil/sediment	Total porosity	TPM/MSK/P&E/1/19 Issue No - 04, Issue Date -January 02: 2023
246.	Soil/sediment	Moisture content/water content	IS 2720 (Part 2) 1973

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
247.	Soil/sediment	Specific gravity	IS 2720 (Part 3/Sec 1) 1980
248.	Soil/sediment	Permeability	IS 2720 (Part 17) 1986
249.	Soil/sediment	Total soluble solid	IS 2720 (Part 21) 1977
250.	Soil/sediment	Organic carbon	IS 2720 (Part 22) 1972
251.	Soil/sediment	Organic matter	IS 2720 (Part 22) 1972
252.	Soil/sediment	Cation exchange capacity	IS 2720 (Part-24) 1976
253.	Soil/sediment	pH	IS 2720 (Part- 26) 1987
254.	Soil/sediment	Total soluble sulphates	IS 2720 (Part-27) 1977
255.	Soil/sediment	Bulk density	IS 2720 (Part 29) 1975
256.	Soil/sediment	Total nitrogen (N)	IS 14684 1999
257.	Soil/sediment	Electrical conductivity	IS 14767:2000
258.	Soil/sediment	Hexavalent chromium	EPA 3060 A, December 1996 EPA 7196 A, July 1992
259.	Soil/sediment	Cyanide	EPA 9010 C, November 2004 EPA 9213: 1996
260.	Soil/sediment	Available boron (B)	TPM/MSK/P&E/1/1
261.	Soil/sediment	Available calcium (Ca)	TPM/MSK/P&E/1/9
262.	Soil/sediment	Available magnesium (Mg)	TPM/MSK/P&E/1/10
263.	Soil/sediment	Available iron (Fe)	TPM/MSK/P&E/1/4
264.	Soil/sediment	Barium (Ba)	TPM/MSK/INST-158
265.	Soil/sediment	Cadmium (Cd)	TPM/MSK/INST-158
266.	Soil/sediment	Cobalt (Co)	TPM/MSK/INST-158
267.	Soil/sediment	Chromium (Cr)	TPM/MSK/INST-158
268.	Soil/sediment	Copper (Cu)	TPM/MSK/INST-158
269.	Soil/sediment	Nickel (Ni)	TPM/MSK/INST-158

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
270.	Soil/sediment	Lead (Pb)	TPM/MSK/INST-158
271.	Soil/sediment	Zinc (Zn)	TPM/MSK/INST-158
272.	Soil/sediment	Aluminium (Al)	TPM/MSK/INST-158
273.	Soil/sediment	Manganese (Mn)	TPM/MSK/INST-158
274.	Soil/sediment	Arsenic (As)	TPM/MSK/INST-158
275.	Soil/sediment	Mercury (Hg)	TPM/MSK/INST-171
276.	Soil/sediment	Antimony (Sb)	TPM/MSK/INST-158
277.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	pH	EPA 9045D:2004
278.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Electrical conductivity	IS 16556: 2016
279.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Corrosivity (By pH)	USEPA 9040 B: 1995
280.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Loss on drying at 105 °C	TPM/MSK/P&E/2/01 Issue No - 04, Issue Date -January 02: 2023
281.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Loss on ignition at 550°C	TPM/MSK/P&E/2/01 Issue No - 04, Issue Date -January 02: 2023
282.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Flammability / ignitability (by flash point)	USEPA 1010: 1986
283.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Ammonia	EPA 1311:1992 &APHA 24th Edition, 2023 4500NH3-F
284.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Nitrate (N)	EPA 1311:1992 & APHA 24th Edition, 2023 4500NO3- E
285.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Cyanide (CN)	EPA 1311:1992 &APHA 24th Edition, 2023 4500 CN- F

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
286.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Fluoride (F)	EPA 1311:1992 &APHA 24th Edition, 2023 4500 F- C
287.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Antimony & antimony compound (TCLP)	TPM/MSK/INST-164
288.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Arsenic & arsenic compound (TCLP)	TPM/MSK/INST-164
289.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Beryllium & beryllium compounds (TCLP)	TPM/MSK/INST-164
290.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Cadmium & cadmium compounds (TCLP)	TPM/MSK/INST-164
291.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Chromium & chromium compounds (TCLP)	TPM/MSK/INST-164
292.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	copper & copper compounds (TCLP)	TPM/MSK/INST-164
293.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	lead & lead compounds (TCLP)	TPM/MSK/INST-164
294.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Molybdenum & molybdenum compounds (TCLP)	TPM/MSK/INST-164
295.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Nickel & nickel compounds (TCLP)	TPM/MSK/INST-164
296.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Silver & silver compounds	TPM/MSK/INST-164
297.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Vanadium & vanadium compounds (TCLP)	TPM/MSK/INST-164

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
298.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Barium & barium compounds (TCLP)	TPM/MSK/INST-164
299.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Zinc & zinc compounds (X`TCLP)	TPM/MSK/INST-164
300.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Mercury & mercury compounds (TCLP)	TPM/MSK/INST-171
301.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Naphthalene	TPM/MSK/INST-168
302.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Acenaphthylene	TPM/MSK/INST-168
303.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Acenaphthene	TPM/MSK/INST-168
304.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Fluorene	TPM/MSK/INST-168
305.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Phenanthrene	TPM/MSK/INST-168
306.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Fluoranthene	TPM/MSK/INST-168
307.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Pyrene	TPM/MSK/INST-168
308.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Benz[A]Anthracene	TPM/MSK/INST-168
309.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Anthracene	TPM/MSK/INST-168

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
310.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Chrysene	TPM/MSK/INST-168
311.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Benzo(K)Fluoranthene	TPM/MSK/INST-168
312.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Benzo(A)Pyrene	TPM/MSK/INST-168
313.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Benzo[ghi]Perylene	TPM/MSK/INST-168
314.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Dibenz (ah)Anthracene	TPM/MSK/INST-168
315.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Indeno (1,2,3-cd) Pyrene	TPM/MSK/INST-168
316.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Benzo(B)Fluoranthene	TPM/MSK/INST-168
317.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Heptane	TPM/MSK/INST-157
318.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Octane	TPM/MSK/INST-157
319.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Decane	TPM/MSK/INST-157
320.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Dodecane	TPM/MSK/INST-157
321.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Tetradecane	TPM/MSK/INST-157

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
322.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Hexadecane	TPM/MSK/INST-157
323.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Octadecane	TPM/MSK/INST-157
324.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Eicosane	TPM/MSK/INST-157
325.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Docosane	TPM/MSK/INST-157
326.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Tetracosane	TPM/MSK/INST-157
327.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Octacosane	TPM/MSK/INST-157
328.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Dotriacontane	TPM/MSK/INST-157
329.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Tetretriacontane	TPM/MSK/INST-157
330.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	n-Hexatriacontane	TPM/MSK/INST-157
331.	Wastes (liquid/ slurry/ sludge/solid/semi- solid)	Octatriacontane	TPM/MSK/INST-157
332.	Used oil/waste oil	Water content	ASTM D 95 -13 2018
333.	Used oil/waste oil	Flash point	IS 1448 (Part 21) :2019

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Ochratoxin A	TPM/MSK/INST./106
2.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Melamine	TPM/MSK/INST-154
3.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Arsenic (As)	TPM/MSK/INST-142
4.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Cadmium (Cd)	TPM/MSK/INST-142

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
5.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Copper (Cu)	TPM/MSK/INST-142
6.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Lead (Pb)	TPM/MSK/INST-142
7.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Mercury (Hg)	TPM/MSK/INST-142
8.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Methyl Mercury calculated as elemental mercury	TPM/MSK/INST-142

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
9.	Alcoholic beverages (cordials, wine, grape spirit, brandy, rum, vodka, gin, beer, whisky, spirit distillate, tequila, extra neutral alcohol)	Iron (Fe)	TPM/MSK/INST-142
10.	Milk and milk products	2,4-Dichlorophenoxy Acetic Acid	TPM/MSK/INST./F/17
11.	Milk and milk products	Acephate (expressed as mixture of Methamidophos and	TPM/MSK/INST./F/17
12.	Milk and milk products	Acetamiprid	TPM/MSK/INST./F/17
13.	Milk and milk products	Azoxystrobin	TPM/MSK/INST./F/17
14.	Milk and milk products	Benomyl	TPM/MSK/INST./F/17
15.	Milk and milk products	Bifenthrin	TPM/MSK/INST./F/11
16.	Milk and milk products	Bitertanol	TPM/MSK/INST./F/17
17.	Milk and milk products	Buprofezin	TPM/MSK/INST./F/17
18.	Milk and milk products	Carbaryl	TPM/MSK/INST./F/17
19.	Milk and milk products	Carbendazim	TPM/MSK/INST./F/17
20.	Milk and milk products	Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)	TPM/MSK/INST./F/17
21.	Milk and milk products	Chlorantraniliprole	TPM/MSK/INST./F/17

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
22.	Milk and milk products	Chlorothalonil	TPM/MSK/INST./F/17
23.	Milk and milk products	Chlorpyrifos	TPM/MSK/INST./F/11
24.	Milk and milk products	Chlothianidin	TPM/MSK/INST./F/17
25.	Milk and milk products	Cypermethrin (sum of isomers) (Fat soluble residue)	TPM/MSK/INST./F/11
26.	Milk and milk products	Deltamethrin (Decamethrin)	TPM/MSK/INST./F/11
27.	Milk and milk products	Dichlorvos (DDVP) (content of dichloroacetaldehyde (D.C.A.) be reported where possible)	TPM/MSK/INST./F/17
28.	Milk and milk products	Difenoconazole	TPM/MSK/INST./F/17
29.	Milk and milk products	Dimethoate	TPM/MSK/INST./F/11
30.	Milk and milk products	Dinotefuran	TPM/MSK/INST./F/17
31.	Milk and milk products	Emamectin Benzoate	TPM/MSK/INST./F/17
32.	Milk and milk products	Edifenphos	TPM/MSK/INST./F/17
33.	Milk and milk products	Ethion	TPM/MSK/INST./F/11
34.	Milk and milk products	Ethofenprox (Etofenprox)	TPM/MSK/INST./F/11
35.	Milk and milk products	Fenpropathrin	TPM/MSK/INST./F/11
36.	Milk and milk products	Fenvalerate	TPM/MSK/INST./F/11
37.	Milk and milk products	Fipronil	TPM/MSK/INST./F/17

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
38.	Milk and milk products	Flubendiamide	TPM/MSK/INST./F/17
39.	Milk and milk products	Flusilazole	TPM/MSK/INST./F/11
40.	Milk and milk products	Glufosinate Ammonium	TPM/MSK/INST./F/14
41.	Milk and milk products	Imidacloprid	TPM/MSK/INST./F/17
42.	Milk and milk products	Indoxacarb	TPM/MSK/INST./F/11
43.	Milk and milk products	Kresoxim Methyl	TPM/MSK/INST./F/11
44.	Milk and milk products	Methomyl	TPM/MSK/INST./F/17
45.	Milk and milk products	Methyl Chlorophenoxy Acetic Acid (MCPA)	TPM/MSK/INST./F/17
46.	Milk and milk products	Metolachlor	TPM/MSK/INST./F/11
47.	Milk and milk products	Monocrotophos	TPM/MSK/INST./F/17
48.	Milk and milk products	Oxydemeton-Methyl	TPM/MSK/INST./F/17
49.	Milk and milk products	Paraquat dichloride (determined as paraquatcations)	TPM/MSK/INST./F/17
50.	Milk and milk products	Penconazole	TPM/MSK/INST./F/11
51.	Milk and milk products	Phenthoate	TPM/MSK/INST./F/11
52.	Milk and milk products	Phorate	TPM/MSK/INST./F/11

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
53.	Milk and milk products	Phorate sulphone	TPM/MSK/INST./F/11
54.	Milk and milk products	Phorate sulphoxide	TPM/MSK/INST./F/11
55.	Milk and milk products	Pirimiphos-methyl	TPM/MSK/INST./F/11
56.	Milk and milk products	Propiconazole	TPM/MSK/INST./F/11
57.	Milk and milk products	Pyraclostrobin	TPM/MSK/INST./F/17
58.	Milk and milk products	Thiacloprid	TPM/MSK/INST./F/17
59.	Milk and milk products	Thiamethoxam	TPM/MSK/INST./F/17
60.	Milk and milk products	Thiophanate-Methyl	TPM/MSK/INST./F/17
61.	Milk and milk products	Trichlorfon	TPM/MSK/INST./F/17
62.	Milk and milk products	Triadimefon	TPM/MSK/INST./F/17
63.	Milk and milk products	Aflatoxin M1	TPM/MSK/F/10/H
64.	Milk and milk products	Melamine	TPM/MSK/INST./F/20

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
65.	Milk and milk products	Ceftiofur	TPM/MSK/INST./F/45
66.	Milk and milk products	Praziquantel	TPM/MSK/INST./F/45
67.	Milk and milk products	Albendazole	TPM/MSK/INST./89
68.	Milk and milk products	Ampicillin	TPM/MSK/INST./89
69.	Milk and milk products	Apramycin	TPM/MSK/INST./88
70.	Milk and milk products	Cefphactril	TPM/MSK/INST./89
71.	Milk and milk products	Diminazene	TPM/MSK/INST./89
72.	Milk and milk products	Doramectin	TPM/MSK/INST./88
73.	Milk and milk products	Febantel	TPM/MSK/INST./89
74.	Milk and milk products	Fenbendazole	TPM/MSK/INST./89
75.	Milk and milk products	Monensin	TPM/MSK/INST./89
76.	Milk and milk products	Oxfendazole	TPM/MSK/INST./89

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
77.	Milk and milk products	Oxyclozanide	TPM/MSK/INST./88
78.	Milk and milk products	Sulfadiazine	TPM/MSK/INST./89
79.	Milk and milk products	Sulfadimidine	TPM/MSK/INST./89
80.	Milk and milk products	Sulfanilamide	TPM/MSK/INST./89
81.	Milk and milk products	Sulpha chloropyrazine	TPM/MSK/INST./89
82.	Milk and milk products	Tylosin	TPM/MSK/INST./89
83.	Milk and milk products	Flunixin Meglumine	TPM/MSK/INST./F/45
84.	Milk and milk products	Ivermectin	TPM/MSK/INST./F/45
85.	Milk and milk products	Lincomycin	TPM/MSK/INST./F/45
86.	Milk and milk products	Meloxicam	TPM/MSK/INST./F/45
87.	Milk and milk products	Spectinomycin	TPM/MSK/INST./F/45
88.	Milk and milk products	Tetracycline	TPM/MSK/INST./F/10

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
89.	Milk and milk products	Thiabendazole	TPM/MSK/INST./F/45
90.	Milk and milk products	Trimethoprim	TPM/MSK/INST./F/45
91.	Milk and milk products	Lead (Pb)	TPM/MSK/INST-138
92.	Milk and milk products	Cadmium (Cd)	TPM/MSK/INST-138
93.	Milk and milk products	Tin (Sn)	TPM/MSK/INST-138
94.	Milk and milk products	Arsenic (As)	TPM/MSK/INST-138
95.	Milk and milk products	Copper (Cu)	TPM/MSK/INST-138
96.	Milk and milk products	Mercury (Hg)	TPM/MSK/INST-138
97.	Milk and milk products	Methyl mercury as elemental mercury	TPM/MSK/INST-138
98.	Milk and milk products	Zinc (Zn)	TPM/MSK/INST-138
99.	Milk and milk products	Chromium (Cr)	TPM/MSK/INST-138
100.	Herbs, spices, seasonings and condiments	Acetamiprid	TPM/MSK/INST./F/29

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
101.	Herbs, spices, seasonings and condiments	Alpha naphthyl acetic acid	TPM/MSK/INST./F/29
102.	Herbs, spices, seasonings and condiments	Azoxystrobin	TPM/MSK/INST./F/29
103.	Herbs, spices, seasonings and condiments	Buprofezin	TPM/MSK/INST./F/29
104.	Herbs, spices, seasonings and condiments	Carbaryl	TPM/MSK/INST./F/29
105.	Herbs, spices, seasonings and condiments	Carbosulfan	TPM/MSK/INST./F/29
106.	Herbs, spices, seasonings and condiments	Chlorantraniliprole	TPM/MSK/INST./F/29
107.	Herbs, spices, seasonings and condiments	Chlorfenapyr	TPM/MSK/INST./F/29
108.	Herbs, spices, seasonings and condiments	Copper oxychloride (Copper determined as elemental copper)	TPM/MSK/INST-139
109.	Herbs, spices, seasonings and condiments	Copper sulphate (Copper determined as elemental copper)	TPM/MSK/INST-139
110.	Herbs, spices, seasonings and condiments	Cuprous oxide (Copper determined as elemental copper)	TPM/MSK/INST-139
111.	Herbs, spices, seasonings and condiments	Cyantranilipole	TPM/MSK/INST./F/29
112.	Herbs, spices, seasonings and condiments	Deltamethrin (Decamethrin)	TPM/MSK/INST./F/29

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
113.	Herbs, spices, seasonings and condiments	Diafenthuron	TPM/MSK/INST./F/29
114.	Herbs, spices, seasonings and condiments	Dicofol (sum of o,p' and p,p' isomers)"	TPM/MSK/INST./F/29
115.	Herbs, spices, seasonings and condiments	Difenoconazole	TPM/MSK/INST./F/29
116.	Herbs, spices, seasonings and condiments	Dimethoate	TPM/MSK/INST./F/29
117.	Herbs, spices, seasonings and condiments	Dithiocarbamates (CS ₂) (Mancozeb, Metiram, Zineb)	TPM/MSK/INST./155
118.	Herbs, spices, seasonings and condiments	Epoxyconazole	TPM/MSK/INST./F/29
119.	Herbs, spices, seasonings and condiments	Fenazaquin	TPM/MSK/INST./F/29
120.	Herbs, spices, seasonings and condiments	Fenpropathrin	TPM/MSK/INST./F/29
121.	Herbs, spices, seasonings and condiments	Fenpyroximate	TPM/MSK/INST./F/29
122.	Herbs, spices, seasonings and condiments	Fipronil	TPM/MSK/INST./F/29
123.	Herbs, spices, seasonings and condiments	Flubendiamide	TPM/MSK/INST./F/29
124.	Herbs, spices, seasonings and condiments	Flusilazole	TPM/MSK/INST./F/29

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
125.	Herbs, spices, seasonings and condiments	Fosetyl-Al	TPM/MSK/INST./F/29
126.	Herbs, spices, seasonings and condiments	Hexaconazole	TPM/MSK/INST./F/29
127.	Herbs, spices, seasonings and condiments	Imidacloprid	TPM/MSK/INST./F/29
128.	Herbs, spices, seasonings and condiments	Indoxacarb	TPM/MSK/INST./F/29
129.	Herbs, spices, seasonings and condiments	Kresoxim Methyl	TPM/MSK/INST./F/29
130.	Herbs, spices, seasonings and condiments	Lambda cyhalothrin	TPM/MSK/INST./F/29
131.	Herbs, spices, seasonings and condiments	Lufenuron	TPM/MSK/INST./F/29
132.	Herbs, spices, seasonings and condiments	Metalaxyl-M	TPM/MSK/INST./F/29
133.	Herbs, spices, seasonings and condiments	Methomyl	TPM/MSK/INST./F/29
134.	Herbs, spices, seasonings and condiments	Milbemectin	TPM/MSK/INST./F/29
135.	Herbs, spices, seasonings and condiments	Monocrotophos	TPM/MSK/INST./F/29
136.	Herbs, spices, seasonings and condiments	Myclobutanil	TPM/MSK/INST./F/29

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
137.	Herbs, spices, seasonings and condiments	Novaluron	TPM/MSK/INST./F/29
138.	Herbs, spices, seasonings and condiments	Oxadiazyl	TPM/MSK/INST./F/29
139.	Herbs, spices, seasonings and condiments	Oxydemeton-Methyl	TPM/MSK/INST./F/29
140.	Herbs, spices, seasonings and condiments	Pendimethalin	TPM/MSK/INST./F/29
141.	Herbs, spices, seasonings and condiments	Picoxystrobin	TPM/MSK/INST./F/29
142.	Herbs, spices, seasonings and condiments	Propargite	TPM/MSK/INST./F/29
143.	Herbs, spices, seasonings and condiments	Propineb	TPM/MSK/INST./155
144.	Herbs, spices, seasonings and condiments	Pyraclostrobin	TPM/MSK/INST./F/29
145.	Herbs, spices, seasonings and condiments	Pyridalyl	TPM/MSK/INST./F/29
146.	Herbs, spices, seasonings and condiments	Pyriproxyfen	TPM/MSK/INST./F/29
147.	Herbs, spices, seasonings and condiments	Quinalphos	TPM/MSK/INST./F/29
148.	Herbs, spices, seasonings and condiments	Spinosad	TPM/MSK/INST./F/29

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QAI/CIA/TL/2024/0094

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
149.	Herbs, spices, seasonings and condiments	Spiromesifen	TPM/MSK/INST./F/29
150.	Herbs, spices, seasonings and condiments	Thiacloprid	TPM/MSK/INST./F/29
151.	Herbs, spices, seasonings and condiments	Thiodicarb	TPM/MSK/INST./F/29
152.	Herbs, spices, seasonings and condiments	Thiamethoxam	TPM/MSK/INST./F/29
153.	Herbs, spices, seasonings and condiments	Triadimefon	TPM/MSK/INST./F/29
154.	Herbs, spices, seasonings and condiments	Trifloxystrobin	TPM/MSK/INST./F/29
155.	Herbs, spices, seasonings and condiments	Triazophos	TPM/MSK/INST./F/29
156.	Herbs, spices, seasonings and condiments	Tricyclazole	TPM/MSK/INST./F/29
157.	Herbs, spices, seasonings and condiments	Spinetoram and its metabolites (Spinosyn-J and Spinosyn-L)	TPM/MSK/INST./F/29
158.	Herbs, spices, seasonings and condiments	Spirotetramat	TPM/MSK/INST./F/29
159.	Herbs, spices, seasonings and condiments	Abamectin	TPM/MSK/INST./F/29
160.	Herbs, spices, seasonings and condiments	Ethylene chlorohydrin	TPM/MSK/INST./68

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
161.	Herbs, spices, seasonings and condiments	Ethylene Oxide	TPM/MSK/INST./68
162.	Herbs, spices, seasonings and condiments	Lead (Pb)	TPM/MSK/INST-139
163.	Herbs, spices, seasonings and condiments	Arsenic (As)	TPM/MSK/INST-139
164.	Herbs, spices, seasonings and condiments	Copper (Cu)	TPM/MSK/INST-139
165.	Herbs, spices, seasonings and condiments	Tin (Sn)	TPM/MSK/INST-139
166.	Herbs, spices, seasonings and condiments	Cadmium (Cd)	TPM/MSK/INST-139
167.	Herbs, spices, seasonings and condiments	Mercury (Hg)	TPM/MSK/INST-139
168.	Herbs, spices, seasonings and condiments	Methyl Mercury calculated as elemental (Hg)	TPM/MSK/INST-139
169.	Herbs, spices, seasonings and condiments	Aflatoxin B1	TPM/MSK/INST./94
170.	Herbs, spices, seasonings and condiments	Aflatoxin B2	TPM/MSK/INST./94
171.	Herbs, spices, seasonings and condiments	Aflatoxin G1	TPM/MSK/INST./94
172.	Herbs, spices, seasonings and condiments	Aflatoxin G2	TPM/MSK/INST./94

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
173.	Herbs, spices, seasonings and condiments	Melamine	TPM/MSK/INST-154
174.	Tea	Bifenthrin	TPM/MSK/INST-153
175.	Tea	Bitertanol	TPM/MSK/INST-153
176.	Tea	Carbendazim	TPM/MSK/INST-153
177.	Tea	Carfentrazone Ethyl	TPM/MSK/INST-153
178.	Tea	Chlorpyrifos	TPM/MSK/INST-153
179.	Tea	Chlothianidin	TPM/MSK/INST-153
180.	Tea	Deltamethrin	TPM/MSK/INST-153
181.	Tea	Dicofol	TPM/MSK/INST-153
182.	Tea	Dithiocarbamate (CS ₂) (Mancozeb, Metiram, Zineb, Febram etc.)	TPM/MSK/INST-155
183.	Tea	Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)	TPM/MSK/INST-153
184.	Tea	Emamectin Benzoate	TPM/MSK/INST-153
185.	Tea	Etoxazole	TPM/MSK/INST-153
186.	Tea	Fenazaquin	TPM/MSK/INST-153

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
187.	Tea	Fenpropathrin	TPM/MSK/INST-153
188.	Tea	Fenpyroximate	TPM/MSK/INST-153
189.	Tea	Flubendiamide	TPM/MSK/INST-153
190.	Tea	Fluvalinate	TPM/MSK/INST-153
191.	Tea	Glufosinate Ammonium	TPM/MSK/F/22/P Issue No.01 April 01 2017
192.	Tea	Glyphosate	TPM/MSK/F/22/P Issue No.01 April 01 2017
193.	Tea	Hexaconazole	TPM/MSK/INST-153
194.	Tea	Bitertanol	TPM/MSK/INST-153
195.	Tea	Lambda cyhalothrin	TPM/MSK/INST-153
196.	Tea	Paraquat dichloride (Determined as Paraquatcations)	TPM/MSK/INST-153
197.	Tea	Propargite	TPM/MSK/INST-153
198.	Tea	Propiconazole	TPM/MSK/INST-153
199.	Tea	Quinalphos	TPM/MSK/INST-153
200.	Tea	Phosphamidon	TPM/MSK/INST-153
201.	Tea	Thiacloprid	TPM/MSK/INST-153
202.	Tea	Thiamethoxam	TPM/MSK/INST-153

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
203.	Tea	2,4-D Amine Salt	TPM/MSK/INST-153
204.	Tea	Cyflumetofen	TPM/MSK/INST-153
205.	Tea	Aldicarb	TPM/MSK/INST-153
206.	Tea	Aldicarb its sulphoxide	TPM/MSK/INST/F/01
207.	Tea	Aldicarb its sulphone	TPM/MSK/INST/F/01
208.	Tea	Aldrin	TPM/MSK/INST-153
209.	Tea	Dieldrin	TPM/MSK/INST-153
210.	Tea	Chlordane (Total of α - and β -chlordane)	TPM/MSK/INST-153
211.	Tea	Heptachlor	TPM/MSK/INST-153
212.	Tea	Heptachlor Epoxide	TPM/MSK/INST-153
213.	Tea	Alpha HCH	TPM/MSK/INST-153
214.	Tea	Beta HCH	TPM/MSK/INST-153
215.	Tea	Gamma HCH	TPM/MSK/INST-153
216.	Tea	delta-HCH	TPM/MSK/INST-153
217.	Tea	Alpha Endosulfan	TPM/MSK/INST-153
218.	Tea	Beta endosulfan	TPM/MSK/INST-153
219.	Tea	Endosulfan sulphate	TPM/MSK/INST-153

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
220.	Tea	Carbofuran	TPM/MSK/INST-153
221.	Tea	Carbofuran 3-hydroxy	TPM/MSK/INST-153
222.	Tea	Methomyl	TPM/MSK/INST-153
223.	Tea	Phosphamidon	TPM/MSK/INST-153
224.	Tea	Captafol	TPM/MSK/INST-153
225.	Tea	Formothion	TPM/MSK/INST-153
226.	Tea	Simazine	TPM/MSK/INST-153
227.	Tea	Diazinon	TPM/MSK/INST-153
228.	Tea	o,p-DDD	TPM/MSK/INST-153
229.	Tea	o,p-DDT	TPM/MSK/INST-153
230.	Tea	o,p-DDE	TPM/MSK/INST-153
231.	Tea	p,p-DDT	TPM/MSK/INST-153
232.	Tea	p,p-DDE	TPM/MSK/INST-153
233.	Tea	p,p-DDD	TPM/MSK/INST-153
234.	Tea	Fenitrothion	TPM/MSK/INST-153
235.	Tea	Fenthion	TPM/MSK/INST-153
236.	Tea	Fenthion sulphoxides	TPM/MSK/INST-153
237.	Tea	Fenthion Sulphones	TPM/MSK/INST-153

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
238.	Tea	Methyl Parathion	TPM/MSK/INST-153
239.	Tea	Methyl Paraoxon	TPM/MSK/INST-153
240.	Tea	Ethyl Parathion (Ethyl Parathion and its oxygen analogue i.e. ethyl paraoxon)	TPM/MSK/INST-153
241.	Tea	Malaoxon	TPM/MSK/INST-153
242.	Tea	Monocrotophos	TPM/MSK/INST-153
243.	Tea	Acephate	TPM/MSK/INST-153
244.	Tea	Acetamiprid	TPM/MSK/INST-153
245.	Tea	Cypermethrin (sum of isomers) (Fat soluble residue)	TPM/MSK/INST-153
246.	Tea	Dinotefuran	TPM/MSK/INST-153
247.	Tea	Fipronil	TPM/MSK/INST-153
248.	Tea	Imidacloprid	TPM/MSK/INST-153
249.	Tea	Novaluron	TPM/MSK/INST-153
250.	Tea	Pendimethalin	TPM/MSK/INST-153
251.	Tea	Profenfos	TPM/MSK/INST-153
252.	Tea	Kresoxim methyl	TPM/MSK/INST-153
253.	Tea	Chlorbenzylate	TPM/MSK/INST-153

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
254.	Tea	Dimethoate	TPM/MSK/INST-153
255.	Tea	Spiromesifen	TPM/MSK/INST-153
256.	Tea	Dithiocarbamate (CS ₂) (Mancozeb, Metiram, Zineb, Febram etc)	TPM/MSK/INST-155
257.	Tea	Lead (Pb) on dry matter basis	TPM/MSK/INST-140
258.	Tea	Copper (Cu)	TPM/MSK/INST-140
259.	Tea	Arsenic (As)	TPM/MSK/INST-140
260.	Tea	Cadmium (Cd)	TPM/MSK/INST-140
261.	Tea	Mercury (Hg)	TPM/MSK/INST-140
262.	Tea	Methyl Mercury calculated as elemental mercury	TPM/MSK/INST-140
263.	Tea	Tin (Sn)	TPM/MSK/INST-140
264.	Tea	Melamine	TPM/MSK/INST-154
265.	Bakery and confectionary products	3-hydroxy carbofuran	TPM/MSK/INST-150
266.	Bakery and confectionary products	Acetamiprid	TPM/MSK/INST-150
267.	Bakery and confectionary products	Bifenthrin	TPM/MSK/INST-150

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
268.	Bakery and confectionary products	Bitertanol	TPM/MSK/INST-150
269.	Bakery and confectionary products	Chlorimuron ethyl	TPM/MSK/INST-150
270.	Bakery and confectionary products	Chlorobenzilate	TPM/MSK/INST-150
271.	Bakery and confectionary products	Clodinafop propagyl	TPM/MSK/INST-150
272.	Bakery and confectionary products	Cyhalothrin	TPM/MSK/INST-150
273.	Bakery and confectionary products	Diclofop methyl	TPM/MSK/INST-150
274.	Bakery and confectionary products	Emamectin Benzoate	TPM/MSK/INST-150
275.	Bakery and confectionary products	Fenpyroximate	TPM/MSK/INST-150
276.	Bakery and confectionary products	Fenthion sulfone	TPM/MSK/INST-150
277.	Bakery and confectionary products	Fenthion sulfoxide	TPM/MSK/INST-150
278.	Bakery and confectionary products	Fenthion	TPM/MSK/INST-150
279.	Bakery and confectionary products	Flubendiamide	TPM/MSK/INST-150

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
280.	Bakery and confectionary products	Fluchloralin	TPM/MSK/INST-150
281.	Bakery and confectionary products	Imidacloprid	TPM/MSK/INST-150
282.	Bakery and confectionary products	Isoproturon	TPM/MSK/INST-150
283.	Bakery and confectionary products	Oxydemeton methyl	TPM/MSK/INST-150
284.	Bakery and confectionary products	Pendimethalin	TPM/MSK/INST-150
285.	Bakery and confectionary products	Profenfos	TPM/MSK/INST-150
286.	Bakery and confectionary products	Propiconazole	TPM/MSK/INST-150
287.	Bakery and confectionary products	Sulfosulfuron	TPM/MSK/INST-150
288.	Bakery and confectionary products	Thiacloprid	TPM/MSK/INST-150
289.	Bakery and confectionary products	Thiamethoxam	TPM/MSK/INST-150
290.	Bakery and confectionary products	Thiophenate Methyl	TPM/MSK/INST-150
291.	Bakery and confectionary products	Triademefon	TPM/MSK/INST-150

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
292.	Bakery and confectionary products	Triallate	TPM/MSK/INST-150
293.	Bakery and confectionary products	Tridemorph	TPM/MSK/INST-150
294.	Bakery and confectionary products	Trifluralin	TPM/MSK/INST-150
295.	Bakery and confectionary products	Fenazaquin	TPM/MSK/INST-150
296.	Bakery and confectionary products	Alachlor	TPM/MSK/INST-150
297.	Bakery and confectionary products	a- Hexachlorocyclo- Hexane	TPM/MSK/INST-150
298.	Bakery and confectionary products	Aldrin	TPM/MSK/INST-150
299.	Bakery and confectionary products	b- Hexachlorocyclo- Hexane	TPM/MSK/INST-150
300.	Bakery and confectionary products	Carbaryl	TPM/MSK/INST-150
301.	Bakery and confectionary products	Carbendazim	TPM/MSK/INST-150
302.	Bakery and confectionary products	Carbofuran	TPM/MSK/INST-150
303.	Bakery and confectionary products	Oxyfluorfen	TPM/MSK/INST-150

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
304.	Bakery and confectionary products	Chlordane	TPM/MSK/INST-150
305.	Bakery and confectionary products	Chlorfenvinphos	TPM/MSK/INST-150
306.	Bakery and confectionary products	Chlorpyrifos	TPM/MSK/INST-150
307.	Bakery and confectionary products	Cypermethrin (sum of isomers) (Fat soluble residue)	TPM/MSK/INST-150
308.	Bakery and confectionary products	Deltamethrin	TPM/MSK/INST-150
309.	Bakery and confectionary products	d- Hexachlorocyclo- Hexane	TPM/MSK/INST-150
310.	Bakery and confectionary products	Diazinon	TPM/MSK/INST-150
311.	Bakery and confectionary products	Dichlorvos (DDVP) (content of dichloroacetaldehyde (D.C.A.) be reported where possible)	TPM/MSK/INST-150
312.	Bakery and confectionary products	Dicofol (sum of o,p' and p,p' isomers)	TPM/MSK/INST-150
313.	Bakery and confectionary products	Dieldrin	TPM/MSK/INST-150
314.	Bakery and confectionary products	Dimethoate	TPM/MSK/INST-150
315.	Bakery and confectionary products	α -Endosulfan	TPM/MSK/INST-150

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	Residue In Food & Agricultural Products		
316.	Bakery and confectionary products	β -Endosulfan	TPM/MSK/INST-150
317.	Bakery and confectionary products	Endosulfan sulfate	TPM/MSK/INST-150
318.	Bakery and confectionary products	Ethion	TPM/MSK/INST-150
319.	Bakery and confectionary products	Fenamiphos	TPM/MSK/INST-150
320.	Bakery and confectionary products	Fenitrothion	TPM/MSK/INST-150
321.	Bakery and confectionary products	Fenpropathrin	TPM/MSK/INST-150
322.	Bakery and confectionary products	Formothion	TPM/MSK/INST-150
323.	Bakery and confectionary products	g-Hexachlorocyclo-Hexane	TPM/MSK/INST-150
324.	Bakery and confectionary products	Heptachlor	TPM/MSK/INST-150
325.	Bakery and confectionary products	Malathion	TPM/MSK/INST-150
326.	Bakery and confectionary products	Methidathion	TPM/MSK/INST-150
327.	Bakery and confectionary products	Monocrotophos	TPM/MSK/INST-150

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
328.	Bakery and confectionary products	Parathion	TPM/MSK/INST-150
329.	Bakery and confectionary products	Phenthoate	TPM/MSK/INST-150
330.	Bakery and confectionary products	Phorate	TPM/MSK/INST-150
331.	Bakery and confectionary products	Phosalone	TPM/MSK/INST-150
332.	Bakery and confectionary products	Phosphamidon	TPM/MSK/INST-150
333.	Bakery and confectionary products	Pirimiphos-Methyl	TPM/MSK/INST-150
334.	Bakery and confectionary products	Propargite	TPM/MSK/INST-150
335.	Bakery and confectionary products	Quinalphos	TPM/MSK/INST-150
336.	Bakery and confectionary products	Thiometon	TPM/MSK/INST-150
337.	Bakery and confectionary products	Trichlorfon	TPM/MSK/INST-150
338.	Bakery and confectionary products	b-Cyfluthrin	TPM/MSK/INST-150
339.	Bakery and confectionary products	Dichloran	TPM/MSK/INST-150

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(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Mitra S. K. Private Limited

Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road,
Kolkata - 700015, West Bengal, India

QAI/CIA/TL/2024/0094

Valid from: 31 December 2024

Valid until: 30 December 2026

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
340.	Bakery and confectionary products	Etoxazole	TPM/MSK/INST-150
341.	Bakery and confectionary products	Fenamifos	TPM/MSK/INST-150
342.	Bakery and confectionary products	Fenchlorfos	TPM/MSK/INST-150
343.	Bakery and confectionary products	Fenvalerate	TPM/MSK/INST-150
344.	Bakery and confectionary products	Fluvalinate	TPM/MSK/INST-150
345.	Bakery and confectionary products	Heptachlor Epoxide	TPM/MSK/INST-150
346.	Bakery and confectionary products	Hexaconazole	TPM/MSK/INST-150
347.	Bakery and confectionary products	Maloxan	TPM/MSK/INST-150
348.	Bakery and confectionary products	Methyl Paroxan	TPM/MSK/INST-150
349.	Bakery and confectionary products	Methamidofos	TPM/MSK/INST-150
350.	Bakery and confectionary products	o,p'-DDD	TPM/MSK/INST-150
351.	Bakery and confectionary products	o,p'-DDE	TPM/MSK/INST-150

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
352.	Bakery and confectionary products	o,p'-DDT	TPM/MSK/INST-150
353.	Bakery and confectionary products	p,p'-DDD	TPM/MSK/INST-150
354.	Bakery and confectionary products	p,p'-DDE	TPM/MSK/INST-150
355.	Bakery and confectionary products	p,p'-DDT	TPM/MSK/INST-150
356.	Bakery and confectionary products	Phorate Sulfone	TPM/MSK/INST-150
357.	Bakery and confectionary products	Phorate Sulfoxide	TPM/MSK/INST-150
358.	Bakery and confectionary products	Pyrethrin	TPM/MSK/INST-150
359.	Bakery and confectionary products	Epoxiconazole	TPM/MSK/INST-150
360.	Bakery and confectionary products	Iodosulfuronmethyl sodium	TPM/MSK/INST-150
361.	Bakery and confectionary products	Picoxystrobin	TPM/MSK/INST-150
362.	Bakery and confectionary products	Pinoxaden	TPM/MSK/INST-150
363.	Bakery and confectionary products	Pyraclostrobin	TPM/MSK/INST-150

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
364.	Bakery and confectionary products	Trifloxystrobin	TPM/MSK/INST-150
365.	Bakery and confectionary products	Azoxystrobin	TPM/MSK/INST-150
366.	Bakery and confectionary products	Difenoconazole	TPM/MSK/INST-150
367.	Bakery and confectionary products	Fipronil	TPM/MSK/INST-150
368.	Bakery and confectionary products	Kresoxim methyl	TPM/MSK/INST-150
369.	Bakery and confectionary products	Mesosulfuron Methyl	TPM/MSK/INST-150
370.	Bakery and confectionary products	Triasulfuron	TPM/MSK/INST-150
371.	Bakery and confectionary products	Iodosulfuronmethyl sodium	TPM/MSK/INST-150
372.	Bakery and confectionary products	Methyl Paraoxon	TPM/MSK/INST-150
373.	Bakery and confectionary products	Methyl Parathion	TPM/MSK/INST-150
374.	Bakery and confectionary products	Malaoxon	TPM/MSK/INST-150
375.	Bakery and confectionary products	Copper hydroxide as element (Cu)	TPM/MSK/INST-141

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
376.	Bakery and confectionary products	Copper oxochloride as element (Cu)	TPM/MSK/INST-141
377.	Bakery and confectionary products	Copper oxide as Element (Cu)	TPM/MSK/INST-141
378.	Bakery and confectionary products	Lead (Pb)	TPM/MSK/INST-141
379.	Bakery and confectionary products	Copper (Cu)	TPM/MSK/INST-141
380.	Bakery and confectionary products	Arsenic (As)	TPM/MSK/INST-141
381.	Bakery and confectionary products	Cadmium (Cd)	TPM/MSK/INST-141
382.	Bakery and confectionary products	Mercury (Hg)	TPM/MSK/INST-141
383.	Bakery and confectionary products	Tin (Sn)	TPM/MSK/INST-141
384.	Bakery and confectionary products	Nickel (Ni)	TPM/MSK/INST-141
385.	Bakery and confectionary products	Aflatoxin B1	TPM/MSK/F/21/X
386.	Bakery and confectionary products	Aflatoxin B2	TPM/MSK/F/21/X
387.	Bakery and confectionary products	Aflatoxin G1	TPM/MSK/F/21/X

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Food & Agricultural Products		
388.	Bakery and confectionary products	Aflatoxin G2	TPM/MSK/F/21/X
389.	Bakery and confectionary products	Melamine	TPM/MSK/INST-142

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Water		
1.	Water (drinking water, packaged drinking water, packaged natural mineral water, RO water, surface water, ground water)	Bromoform	TPM/MSK/INST-160
2.		Bromodichloromethane	TPM/MSK/INST-160
3.		Chloroform	TPM/MSK/INST-160
4.		Dibromochloromethane	TPM/MSK/INST-160
5.		2,4-D	TPM/MSK/INST./159
6.		a-Endosulfan	TPM/MSK/INST./91
7.		a-HCH	TPM/MSK/INST./91
8.		Alachlor	TPM/MSK/INST./91
9.		Aldrin	TPM/MSK/INST./91
10.		Atrazine	TPM/MSK/INST./91
11.		b-Endosulfan	TPM/MSK/INST./91
12.		b-HCH	TPM/MSK/INST./91
13.		Butachlor	TPM/MSK/INST./91
14.		Chlorpyrifos	TPM/MSK/INST./91
15.		d-HCH	TPM/MSK/INST./91
16.		Dieldrin	TPM/MSK/INST./91
17.		Endosulfan Sulphate	TPM/MSK/INST./91
18.		Ethion	TPM/MSK/INST./91

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Water		
19.		g-HCH	TPM/MSK/INST./91
20.	Water (drinking water, packaged drinking water, packaged natural mineral water, RO water, surface water, ground water)	Isoproturon	TPM/MSK/INST./159
21.		Malaoxon	TPM/MSK/INST./91
22.		Malathion	TPM/MSK/INST./91
23.		Methyl Parathion	TPM/MSK/INST./91
24.		Methyl Paraxon	TPM/MSK/INST./91
25.		Monochrotophos	TPM/MSK/INST./91
26.		o,p DDD	TPM/MSK/INST./91
27.		o,p DDE	TPM/MSK/INST./91
28.		o,p DDT	TPM/MSK/INST./91
29.		p,p DDD	TPM/MSK/INST./91
30.		p,p DDE	TPM/MSK/INST./91
31.		p,p DDT	TPM/MSK/INST./91
32.		Phorate	TPM/MSK/INST./91
33.		Phorate - Sulfone	TPM/MSK/INST./91
34.		Phorate Sulfoxide	TPM/MSK/INST./91
35.		2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	TPM/MSK/INST./91

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Water		
36.		2,2',3,3',4,4',5-Heptachlorobiphenyl	TPM/MSK/INST./91
37.		2,2',3,4,4',5,5'-Heptachlorobiphenyl	TPM/MSK/INST./91
38.		2,2',3,4,4',5',6-Heptachlorobiphenyl	TPM/MSK/INST./91
39.		2,2',3,4,4',5-Hexachlorobiphenyl	TPM/MSK/INST./91
40.		2,2',3,4',5,5',6-Heptachlorobiphenyl	TPM/MSK/INST./91
41.		2,2',3,4,5,5'-Hexachlorobiphenyl	TPM/MSK/INST./91
42.	Water (drinking water, packaged drinking water, packaged natural mineral water, RO water, surface water, ground water)	2,2',3,4,5'- Pentachlorobiphenyl	TPM/MSK/INST./91
43.		2,2',3,5,5',6-Hexachlorobiphenyl	TPM/MSK/INST./91
44.		2,2',3,5'- Tetrachlorobiphenyl	TPM/MSK/INST./91
45.		2,2',4,4',5,5'-Hexachlorobiphenyl	TPM/MSK/INST./91
46.		2,2',4,5,5'- Pentachlorobiphenyl	TPM/MSK/INST./91
47.		2,2',5,5'- Tetrachlorobiphenyl	TPM/MSK/INST./91
48.		2,2',5- Trichlorobiphenyl	TPM/MSK/INST./91
49.		2,3,3',4,6'- Pentachlorobiphenyl	TPM/MSK/INST./91
50.		2,3',4,4'- Tetrachlorobiphenyl	TPM/MSK/INST./91

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Water		
51.		2,3- Dichlorobiphenyl	TPM/MSK/INST./91
52.		2,4',5- Trichlorobiphenyl	TPM/MSK/INST./91
53.		2- Chlorobiphenyl	TPM/MSK/INST./91
54.		Polychlorinated Biphenyls (PCB)	TPM/MSK/INST./91
55.	Water (drinking water, packaged drinking water, packaged natural mineral water, RO water, surface water, ground water)	Acenaphthene	TPM/MSK/INST./91
56.		Acenaphthylene	TPM/MSK/INST./91
57.		Anthracene	TPM/MSK/INST./91
58.		Benz (a) anthracene	TPM/MSK/INST./91
59.		Benzo (a) pyrene	TPM/MSK/INST./91
60.		Benzo (b) Fluoranthene	TPM/MSK/INST./91
61.		Benzo (k) Fluoranthene	TPM/MSK/INST./91
62.		Benzo[ghi]Perylene	TPM/MSK/INST./91
63.		Chrysene	TPM/MSK/INST./91
64.		Dibenzo[a,h] Anthracene	TPM/MSK/INST./91
65.		Fluoranthene	TPM/MSK/INST./91
66.		Fluorene	TPM/MSK/INST./91
67.		Indeno(1,2,3- cd)Pyrene	TPM/MSK/INST./91
68.		Napthalene	TPM/MSK/INST./91

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Residue In Water			
69.	Water (drinking water, packaged drinking water, packaged natural mineral water, RO water, surface water, ground water, dialysis water, water from purifiers, waters from process food industry)	Phenanthrene	TPM/MSK/INST./91	
70.		Pyrene	TPM/MSK/INST./91	
71.		Aluminium (Al)	TPM/MSK/INST./93	
72.		Antimony (Sb)	TPM/MSK/INST./93	
73.		Arsenic (As)	TPM/MSK/INST./93	
74.		Barium (Ba)	TPM/MSK/INST./93	
75.		Beryllium (Be)	TPM/MSK/INST./93	
76.		Boron (B)	TPM/MSK/INST./93	
77.		Cadmium (Cd)	TPM/MSK/INST./93	
78.		Chromium (Cr)	TPM/MSK/INST./93	
79.		Cobalt (Co)	TPM/MSK/INST./93	
80.		Copper (Cu)	TPM/MSK/INST./93	
81.		Iron (Fe)	TPM/MSK/INST./93	
82.		Lead (Pb)	TPM/MSK/INST./93	
83.		Manganese (Mn)	TPM/MSK/INST./93	
84.		Water (drinking water, packaged drinking water, packaged natural mineral water, RO water, surface	Mercury (Hg)	TPM/MSK/INST./93
85.			Molybdenum (Mo)	TPM/MSK/INST./93
86.			Nickel (Ni)	TPM/MSK/INST./93

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Residue In Water		
87.	water, ground water, dialysis water, water from purifiers, waters from process food industry)	Potassium (K)	IS 3025 (Part 2): 2004
88.		Selenium (Se)	TPM/MSK/INST./93
89.		Silver (Ag)	TPM/MSK/INST./93
90.		Sodium (Na)	IS 3025 (Part 2): 2004
91.		Telurium (Te)	TPM/MSK/INST./93
92.		Thalium (Tl)	TPM/MSK/INST./93
93.		Tin (Sn)	TPM/MSK/INST./93
94.		Uranium (U)	IS 3025 (Part 65): 2014
95.		Vanadium (V)	TPM/MSK/INST./93
96.		Zinc (Zn)	TPM/MSK/INST./93

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Water, drinking water	Colour	IS 3025 (Part 4) – 2021 1. (a); IS 3025 (Part 4) – 2021 1. (b)
2.	Water, drinking water	Odour	IS 3025 (Part 5) – 2018
3.	Water, drinking water	Turbidity	IS 3025 (Part 10) – 2023
4.	Water, drinking water	Taste	IS 3025 (Part 8) – 2023
5.	Water, drinking water	Temperature	IS 3025 (Part 9) – 2023
6.	Water, drinking water	pH	IS 3025 (Part 11) – 2022
7.	Water, drinking water	Specific conductivity	IS 3025 (Part 14) – 2013
8.	Water, drinking water	Residual free chlorine	IS 3025 (Part 26) – 2021 1.(C)
9.	Water, drinking water	Chloramine (mono and di)	IS 3025 (Part 26) – 2021 1.(c)
10.	Water, drinking water	Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
11.	Water, drinking water	Total dissolved solids	IS 3025 (Part 16) 2023
12.	Water, drinking water	Total suspended solids	IS 3025 (Part 17) 2022
13.	Water, drinking water	Total solids	IS 3025 (Part 15)2023
14.	Water, drinking water	Calcium (Ca)	IS 3025 (Part 40)2024 1.(a)
15.	Water, drinking water	Calcium (Ca) hardness	IS 3025 (Part 40) 2024 1.(a)
16.	Water, drinking water	Magnesium (Mg)	IS 3025 (Part 46)2023 1.(a)
17.	Water, drinking water	Magnesium (Mg) hardness	IS 3025 (Part 46)2023 1.(a)
18.	Water, drinking water	Total hardness (CaCO ₃)	IS 3025 (Part 21) : 2009

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
19.	Water, drinking water	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022 1.1(b)
20.	Water, drinking water	Nitrate (NO ₃)	IS 3025 (Part 34/Sec1):2023 6.1(a) IS 3025 (Part 34/Sec1):2023 6.1(b)
21.	Water, drinking water	Fluoride (F)	IS 3025 (Part 60) Sec 1:2023 1(a)
22.	Water, drinking water	Nitrite (NO ₂)	IS 3025 (Part 34/Sec1):2023 (7)
23.	Water, drinking water	Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec1:2022 1. (b)
24.	Water, drinking water	Phosphate (PO ₄) / (P)	IS 3025 (Part 31) Sec1:2022 1. (b) IS 3025 (Part 31) Sec1:2022 1. (c)
25.	Water, drinking water	Alkalinity (P and M) (CaCO ₃)/ (HCO ₃)	IS 3025 (Part 23):2023
26.	Water, drinking water	Cyanide (CN)	IS 3025 (Part 27) Sec1:2021 1©
27.	Water, drinking water	Chromium (Cr(VI))	IS 3025 (Part 52):2003 1.1(a)
28.	Water, drinking water	Free (CO ₂)	APHA (24th EDITION, 2022)4500 CO ₂ D
29.	Water, drinking water	Silica (SiO ₂)	IS 3025 (Part 35):2024 1. (b) IS 3025 (Part 35):2024 1. (c)
30.	Water, drinking water	Sulphide (H ₂ S)	IS 3025 (Part 29):2022 1(b)
31.	Water, drinking water	Anionic surface-active agents as (MBAS)	IS 3025 (Part- 68):2019
32.	Water, drinking water	Mineral oil	IS 3025 (Part 39) 2021 1.1(b)
33.	Water, drinking water	Ammonia (Total Ammonia- N)	IS 3025 (Part 34/Sec1):2023 5(b)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
34.	Water, drinking water	Dissolved oxygen (DO)	IS 3025 (Part 38) 1989
35.	Water, drinking water	Iron (Fe)	IS 3025 (Part 53):2024 1.1(a)
36.	Water, others (raw water, well water, bore well water, tube well water, cold water, soft water, bottle wash water, treated water, processed water, DM water)	Colour	IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1. (b)
37.		Odour	IS 3025 (Part 5) – 2018
38.		Turbidity	IS 3025 (Part 10) 2023
39.		Temperature	IS 3025 (Part 9)2023
40.		pH	IS 3025 (Part 11) 2022
41.		Specific Conductivity	IS 3025 (Part 14) 2013
42.		Residual Free Chlorine	IS 3025 (Part 26) – 2021 1.(c)
43.		Chloramine (Mono and Di)	IS 3025 (Part 26) – 2021 1.(c)
44.		Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
45.		Total Dissolved Solids	IS 3025 (Part 16) 2023
46.		Total Suspended Solids	IS 3025 (Part 17) 2022
47.		Total Solids	IS 3025 (Part 15) 2023
48.		Calcium (Ca)	IS 3025 (Part 40)2024 1.(a)
49.		Calcium (Ca) Hardness	IS 3025 (Part 40)2024 1.(a)
50.		Magnesium (Mg)	IS 3025 (Part 46) 2023 1.(a)
51.	Magnesium (Mg) Hardness	IS 3025 (Part 46) 2023	

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Mitra S. K. Private Limited

Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road,
Kolkata - 700015, West Bengal, India

QAI/CIA/TL/2024/0094

Valid from: 31 December 2024

Valid until: 30 December 2026

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
52.	Water, others (raw water, well water, bore well water, tube well water, cold water, soft water, bottle wash water, treated water, processed water, DM water)	Total Hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
53.		Dissolved Oxygen (DO)	IS 3025 (Part 38) 1989
54.		Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022 1(b)
55.		Nitrate (NO ₃)	IS 3025 (Part 34/Sec1):2023 6.1(a) IS 3025 (Part 34/Sec1):2023 6.1(b)
56.		Nitrite (NO ₂)	IS 3025 (Part 34/Sec1):2023 (7)
57.		Fluoride (F)	IS 3025 (Part 60) Sec 1:2023 1(a)
58.		Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec1:2022 1. (b)
59.		Phosphate (PO ₄)/(P)	IS 3025 (Part 31) Sec1:2022 1. (b) IS 3025 (Part 31) Sec1:2022 1. (c)
60.		Alkalinity (P and M) (CaCO ₃)/ (HCO ₃)	IS 3025 (Part 23):2023
61.		Cyanide (CN)	IS 3025 (Part 27) Sec1:2021 1©
62.		Chromium (Cr(VI))	IS 3025 (Part 52):2003 1.1(a)
63.		Free (CO ₂)	APHA (24th Edition, 2022) 4500 CO ₂ D
64.		Silica (SiO ₂)	IS 3025 (Part 35):2024 1. (b) IS 3025 (Part 35):2024 1. (c)
65.		Sulphide (H ₂ S)	IS 3025 (Part 29):2022 1(b)
66.	Anionic surface-active agents (MBAS)	IS 3025 (Part- 68):2019	

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
67.		Mineral oil	IS 3025 (Part 39) 2021 1.1(b)
68.		Ammonia (Total Ammonia- N)	IS 3025 (Part 34/Sec1):2023 5(b)
69.	Water, others (raw water, well water, bore well water, tube well water, cold water, soft water, bottle wash water, treated water, processed water, DM water)	Colour retention of KMnO ₄ , at 27 X 2 °C	IS 1070:2023 ANNEX A
70.		Iron (Fe)	IS 3025 (Part 53):2024 1.1(a)
71.	Water, packaged drinking water	Description	IS 14543:2024 5.3
72.	Water, packaged drinking water	Colour	IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1.b)
73.	Water, packaged drinking water	Odour	IS 3025 (Part 5) 2018
74.	Water, packaged drinking water	Taste	IS 3025 (Part 8) : 2023
75.	Water, packaged drinking water	Turbidity	IS 3025 (Part 10) : 2023
76.	Water, packaged drinking water	pH	IS 3025 (Part 11) 2022
77.	Water, packaged drinking water	Residual free chlorine	IS 3025 (Part 26) 2021 1. (C)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
78.	Water, packaged drinking water	Borate (B)	IS 13428: 2024 Annexure J
79.	Water, packaged drinking water	Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
80.	Water, packaged drinking water	Total dissolved solids	IS 3025 (Part 16) :2023
81.	Water, packaged drinking water	Calcium (Ca)	IS 3025 (Part 40)2024 1. (a)
82.	Water, packaged drinking water	Magnesium (Mg)	IS 3025 (Part 46) 2023 1. (a)
83.	Water, packaged drinking water	Total hardness (CaCO ₃)	IS 3025 (Part 21) :2009
84.	Water, packaged drinking water	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022 1(b)
85.	Water, packaged drinking water	Nitrate (NO ₃)	IS 3025 (Part 34/Sec 1): 2023 6.1 (a) IS 3025 (Part 34/Sec 1) : 20236.1 (b)
86.	Water, packaged drinking water	Nitrite (NO ₂)	IS 3025 (Part 34/Sec 1) : 2023 (7)
87.	Water, packaged drinking water	Fluoride (F)	IS 3025 (Part 60/Sec 1) 1(a)
88.	Water, packaged drinking water	Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec1:2022 1(b)
89.	Water, packaged drinking water	Alkalinity (CaCO ₃)	IS 3025 (Part 23):2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
90.	Water, packaged drinking water	Cyanide (CN)	IS 3025 (Part 27) Sec1:2021 1. (C)
91.	Water, packaged drinking water	Anionic surface-active agents as (MBAS)	IS 3025 (Part- 68):2019
92.	Water, packaged drinking water	Mineral oil	IS 3025 (Part 39) 2021 1.1(b)
93.	Water, packaged drinking water	Alkalinity (HCO ₃)	IS 3025 (Part 23) 2023
94.	Water, packaged drinking water	Sulphide (H ₂ S)	IS 3025 (Part 29) 2022 1(b)
95.	Water, packaged drinking water	Bromate (BrO ₃)	TPM/MSK/INST-156
96.	Water, packaged natural mineral water	Colour	IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1. (b)
97.	Water, packaged natural mineral water	Odour	IS 3025 (Part 5) 2018
98.	Water, packaged natural mineral water	Taste	IS 3025 (Part 8): 2023
99.	Water, packaged natural mineral water	Turbidity	IS 3025 (Part 10): 2023
100.	Water, packaged natural mineral water	pH	IS 3025 (Part 11) 2022
101.	Water, packaged natural mineral water	Residual free chlorine	IS 3025 (Part 26) 2021 1. (c)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
102.	Water, packaged natural mineral water	Borate (B)	IS 13428: 2024 Annexure J
103.	Water, packaged natural mineral water	Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
104.	Water, packaged natural mineral water	Total dissolved solids	IS 3025 (Part 16) : 2023
105.	Water, packaged natural mineral water	Calcium (Ca)	IS 3025 (Part 40)2024 1.(a)
106.	Water, packaged natural mineral water	Magnesium (Mg)	IS 3025 (Part 46) 2023 1.(a)
107.	Water, packaged natural mineral water	Total hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
108.	Water, packaged natural mineral water	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022 1(b)
109.	Water, packaged natural mineral water	Nitrate (NO ₃)	IS 3025 (Part 34/Sec 1) : 2023 6.1 (a) IS 3025 (Part 34/Sec 1) : 2023 6.1 (b)
110.	Water, packaged natural mineral water	Nitrite (NO ₂)	IS 3025 (Part 34/Sec 1) : 2023 (7)
111.	Water, packaged natural mineral water	Fluoride (F)	IS 3025 (Part 60/Sec 1) 1(a)
112.	Water, packaged natural mineral water	Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec1:2022 1(b)
113.	Water, packaged natural mineral water	Alkalinity (CaCO ₃)	IS 3025 (Part 23):2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
114.	Water, packaged natural mineral water	Cyanide (CN)	IS 3025 (Part 27) Sec1:2021 1.(C)
115.	Water, packaged natural mineral water	Anionic surface-active agents as (MBAS)	IS 3025 (Part- 68):2019
116.	Water, packaged natural mineral water	Mineral Oil	IS 3025 (Part 39) 2021 1.1(b)
117.	Water, packaged natural mineral water	Alkalinity (HCO ₃)	IS 3025 (Part 23) 2023
118.	Water, packaged natural mineral water	Sulphide (H ₂ S)	IS 3025 (Part 29) 2022 1(b)
119.	Water, packaged natural mineral water	Bromate (BrO ₃)	TPM/MSK/INST-156
120.	Water, swimming pool water	Colour	IS 3025 (Part 4) – 2021 1(a) IS 3025 (Part 4) – 2021 1 (b)
121.	Water, swimming pool water	Odour	IS 3025 (Part 5) – 2018
122.	Water, swimming pool water	Turbidity	IS 3025 (Part 10) – 2023
123.	Water, swimming pool water	pH	IS 3025 (Part 11) – 2022
124.	Water, swimming pool water	Residual free chlorine	IS 3025 (Part 26) 2021 1. ©
125.	Water, swimming pool water	Total dissolved solids	IS 3025 (Part 16) 2023
126.	Water, swimming pool water	Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
127.	Water, swimming pool water	Alkalinity (P and M) (CaCO ₃) / (HCO ₃)	IS 3025 (Part 23):2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
128.	Water, swimming pool water	Oxygen absorbed in 4 Hours At 27 °C	IS 3025 (Part 63) 2007
129.	Water, ground water	Colour	APHA (24th EDITION, 2023) 2120B / IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1. (b)
130.	Water, ground water	Odour	APHA (24th EDITION, 2023) 2150B/ / IS 3025 (Part 5) – 2018
131.	Water, ground water	Turbidity	APHA (24th EDITION, 2023) 2130B /IS 3025 (Part 10) 2023
132.	Water, ground water	Temperature	IS 3025 (Part 9)2023
133.	Water, ground water	pH	APHA (24th EDITION, 2023)4500- H+B /IS 3025 (Part 11) 2022
134.	Water, ground water	Specific conductivity	APHA (24th EDITION, 2023) 2510B /IS 3025 (Part 14) 2013
135.	Water, ground water	Residual free chlorine	IS 3025 (Part 26) – 2021 1. (a)
136.	Water, ground water	Residual free chlorine	IS 3025 (Part 26) – 2021 1.(c)
137.	Water, ground water	Chloramine (mono and di)	IS 3025 (Part 26) – 2021 1.(c)
138.	Water, ground water	Chloride (Cl)	APHA (24th EDITION, 2023) 4500Cl B /IS 3025 (Part 32) 1988 (2)
139.	Water, ground water	Total dissolved solids	APHA (24th EDITION, 2023)2540C / IS 3025 (Part 16) 2023
140.	Water, ground water	Total suspended solids	APHA (24th EDITION, 2023) 2540D / IS 3025 (Part 17) 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
141.	Water, ground water	Total solids	IS 3025 (Part 15) 2023 /APHA (24th EDITION, 2022)2540B
142.	Water, ground water	Calcium (Ca)	APHA (24th EDITION, 2023) 3500Ca / IS 3025 (Part 40)2024 (a)
143.	Water, ground water	Magnesium (Mg)	APHA (24th EDITION, 2023) 3500 Mg /IS 3025 (Part 46) 2023
144.	Water, ground water	Total hardness (CaCO ₃)	APHA (24th EDITION, 2023) 2340 C /IS 3025 (Part 21) : 2009
145.	Water, ground water	Temporary hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
146.	Water, ground water	Permanent hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
147.	Water, ground water	Dissolved oxygen (DO)	APHA (24th EDITION, 2022)4500-OC/IS 3025 (Part 38) 1989
148.	Water, ground water	Biochemical oxygen demand (BOD)	APHA (24th EDITION, 2023)5210B/ IS 3025 (Part 44) :2023
149.	Water, ground water	Chemical oxygen demand (COD)	APHA (24th EDITION, 2023)5220B /IS 3025 (Part 58):2023
150.	Water, ground water	Oil & Grease	APHA (24th EDITION, 2023)5520B /IS 3025 (Part 39):2021 1.1(a)
151.	Water, ground water	Total Kjeldahl nitrogen	APHA (24th EDITION, 2023)4500 Norg-B/IS 3025 (Part 34/Sec1):2023 8.1(a)
152.	Water, ground water	Sulphate (SO ₄)	APHA (24th EDITION, 2022)4500SO4-E/ IS 3025 (Part 24) Sec 1:2022 1(b)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
153.	Water, ground water	Nitrate (NO ₃)	APHA (24th EDITION, 2023) 4500-NO ₃ -E /APHA (24th EDITION, 2023) 4500-NO ₃ - B /IS 3025 (Part 34/Sec1):2023 6.1(a)/ IS 3025 (Part 34/Sec1):2023 6.1(b)
154.	Water, ground water	Fluoride (F)	APHA (24th EDITION, 2023)4500F C / IS 3025 (Part 60) Sec 1:2023 1(a)
155.	Water, ground water	Nitrite (NO ₂)	APHA (24th EDITION, 2023)4500-NO ₂ --B /IS 3025 (Part 34/Sec1):2023 (7)
156.	Water, ground water	Phenolic compounds (C ₆ H ₅ OH)	APHA (24th EDITION, 2023)5530C/ IS 3025 (Part 43) Sec1:2022 1.(a) IS 3025 (Part 43) Sec1:2022 1.(b)
157.	Water, ground water	Phosphate (PO ₄ / P)	IS 3025 (Part 31) Sec1:2022 1.(b) IS 3025 (Part 31)Sec1:2022 1.(c)
158.	Water, ground water	Alkalinity (P and M) (CaCO ₃)/ (HCO ₃)	IS 3025 (Part 23):2023
159.	Water, ground water	Cyanide (CN)	APHA (24th EDITION, 2023) 4500 CN F /IS 3025 (Part 27) Sec1:2021 1©
160.	Water, ground water	Chromium (Cr(VI))	APHA (24th EDITION, 2022)3500-Cr B /IS 3025 (Part 52):2003 1.1(a)
161.	Water, ground water	Iron (Fe)	IS 3025 (Part 53):2024 1.1(a)
162.	Water, ground water	Free (CO ₂)	APHA (24th EDITION, 2022)4500 CO ₂ D

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
163.	Water, ground water	Silica (SiO ₂)	APHA (24th EDITION, 2023) 4500 SiO ₂ C/ IS 3025 (Part 35):2024 1.(b) IS 3025 (Part 35):2024 1.(c)
164.	Water, ground water	Anionic surface-active agents as (MBAS)	APHA (24th EDITION, 2022)5540C/ IS 3025 (Part- 68):2019
165.	Water, ground water	Sulphide (H ₂ S)	APHA (24th EDITION, 2022)4500S2-D/IS 3025 (Part 29):2022 1(b)
166.	Water, ground water	Mineral oil	IS 3025 (Part 39) 2021 1.1(b)
167.	Water, ground water	Ammonia (Total Ammonia- N)	IS 3025 (Part 34/Sec1):2023 5(b)
168.	Water, water used in processed food industries	Colour	IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1. (b)
169.	Water, water used in processed food industries	Odour	IS 3025 (Part 5) – 2018
170.	Water, water used in processed food industries	Turbidity	IS 3025 (Part 10) 2023
171.	Water, water used in processed food industries	pH	IS 3025 (Part 11) 2022
172.	Water, water used in processed food industries	Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
173.	Water, water used in processed food industries	Total Solids	IS 3025 (Part 15) 2023
174.	Water, water used in processed food industries	Magnesium (Mg)	IS 3025 (Part 46) 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
175.	Water, water used in processed food industries	Total hardness (CaCO ₃)	IS 3025 (Part 21): 2009
176.	Water, water used in processed food industries	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022 1(b)
177.	Water, water used in processed food industries	Nitrate (N)	IS 3025 (Part 34/Sec1):2023 6.1 (a) IS 3025 (Part 34/Sec1):2023 6.1(b)
178.	Water, water used in processed food industries	Fluoride (F)	APHA (24th EDITION, 2023)4500F C /IS 3025 (Part 60) Sec 1:2023 1(a)
179.	Water, water used in processed food industries	Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec1:2022 1 (b)
180.	Water, water used in processed food industries	Cyanide (CN)	IS 3025 (Part 27) Sec1:2021 1©
181.	Water, reagent grade water	Total solids or Non-Volatile residue at 105°C, mg/L	IS 3025 (Part 15) 2023
182.	Water, reagent grade water	Silica (SiO ₂)	IS 3025 (Part 35):2024 1. (b) IS 3025 (Part 35):2024 1. (c)
183.	Water, reagent grade water	Colour retention of (KMnO ₄), at 27 x 2 °C	IS 1070:2023 ANNEX A
184.	Water, reagent grade water	pH	IS 3025 (Part 11) 2022
185.	Water, reagent grade water	Specific conductivity	IS 3025 (Part 14) 2013
186.	Water, surface water	Colour	APHA (24th EDITION, 2023) 2120B/ IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1. (b)
187.	Water, surface water	Odour	APHA (24th EDITION, 2023) 2150B/ / IS 3025 (Part 5) – 2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
188.	Water, surface water	Turbidity	APHA (24th EDITION, 2023) 2130B /IS 3025 (Part 10) 2023
189.	Water, surface water	Temperature	IS 3025 (Part 9)2023
190.	Water, surface water	Specific conductivity	APHA (24th EDITION, 2023) 2510B /IS 3025 (Part 14) 2013
191.	Water, surface water	pH	APHA (24th EDITION, 2022)4500-H+B /IS 3025 (Part 11) 2022
192.	Water, surface water	Residual free chlorine	IS 3025 (Part 26) – 2021 1. (a) IS 3025 (Part 26) – 2021 1.(c)
193.	Water, surface water	Chloramine (mono and di)	IS 3025 (Part 26) – 2021 1.(c)
194.	Water, surface water	Chloride (Cl)	APHA (24th EDITION, 2023) 4500Cl B /IS 3025 (Part 32) 1988 (2)
195.	Water, surface water	Total dissolved solids	APHA (24th EDITION, 2023)2540C / IS 3025 (Part 16) 2023
196.	Water, surface water	Total suspended solids	APHA (24th EDITION, 2023) 2540D / IS 3025 (Part 17) 2022
197.	Water, surface water	Total solids	IS 3025 (Part 15) 2023 /APHA (24th EDITION, 2022)2540B
198.	Water, surface water	Calcium (Ca)	APHA (24th EDITION, 2023) 3500Ca / IS 3025 (Part 40)2024 1.(a)
199.	Water, surface water	Magnesium (Mg)	APHA (24th EDITION, 2023) 3500Mg /IS 3025 (Part 46) 2023
200.	Water, surface water	Total hardness (CaCO ₃)	APHA (24th EDITION, 2023) 2340 C /IS 3025 (Part 21) : 2009

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
201.	Water, surface water	Dissolved oxygen (DO)	IS 3025 (Part 38) 1989
202.	Water, surface water	Biochemical oxygen demand (BOD)	APHA (24th EDITION, 2023)5210B/ IS 3025 (Part 44) :2023
203.	Water, surface water	Chemical oxygen demand (COD)	APHA (24th EDITION, 2023)5220B /IS 3025 (Part 58):2023
204.	Water, surface water	Oil & Grease	APHA (24th EDITION, 2023)5520B /IS 3025 (Part 39):2021 1.1(a)
205.	Water, surface water	Total Kjeldahl nitrogen	APHA (24th EDITION, 2023)4500 Norg-B/ IS 3025 (Part 34/Sec1):2023 8.1(a)
206.	Water, surface water	Sulphate (SO ₄)	APHA (24th EDITION, 2023) 4500SO4-E/IS 3025 (Part 24) Sec 1:2022 1(b)
207.	Water, surface water	Nitrate (NO ₃)	IS 3025 (Part 34/Sec1):2023 6.1(a) / IS 3025 (Part 34/Sec1):2023 6.1(b) /APHA (24th EDITION, 2023) 4500-
208.	Water, surface water	Fluoride (F)	APHA (24th EDITION, 2023)4500F C /IS 3025 (Part 60) Sec 1:2023 1(a)
209.	Water, surface water	Nitrite (NO ₂)	APHA (24th EDITION, 2023)4500-NO2--B /IS 3025 (Part 34/Sec1):2023 (7)
210.	Water, surface water	Phenolic compounds (C ₆ H ₅ OH)	APHA (24th EDITION, 2023)5530C/ IS 3025 (Part 43) Sec1:2022 1.(a) IS 3025 (Part 43) Sec1:2022 1.(b)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
211.	Water, surface water	Phosphate (PO ₄) / (P)	APHA (24th EDITION, 2023) 4500-P/ IS 3025 (Part 31) Sec1:2022 1. (b) IS 3025 (Part 31) Sec1:2022 1. (c)
212.	Water, surface water	Alkalinity (P and M) (CaCO ₃)	APHA (24th EDITION, 2023) 2320B/ IS 3025 (Part 23):2023
213.	Water, surface water	Alkalinity (HCO ₃)	APHA (24th EDITION, 2023) 2320B/ IS 3025 (Part 23):2
214.	Water, surface water	Cyanide (CN)	APHA (24th EDITION, 2023) 4500 CN F /IS 3025 (Part 27) Sec1:2021 1©
215.	Water, surface water	Chromium (Cr(VI))	APHA (24th EDITION, 2023)3500-Cr B /IS 3025 (Part 52):2003 1.1(a)
216.	Water, surface water	Free CO ₂	APHA (24th EDITION, 2022)4500 CO2 D
217.	Water, surface water	Silica (SiO ₂)	APHA (24th EDITION, 2023) 4500 SiO2C/IS 3025 (Part 35):2024 1.(b) IS 3025 (Part 35):2024 1.(c)
218.	Water, surface water	Sulphide (H ₂ S)	APHA (24th EDITION, 2023)4500S2- D/IS 3025 (Part 29):2022 1(b)
219.	Water, surface water	Anionic surface-active agents as (MBAS)	APHA (24th EDITION, 2023)5540C/IS 3025 (Part- 68):2019
220.	Water, surface water	Mineral oil	IS 3025 (Part 39) 2021 1.1(b)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
221.	Water, surface water	Ammonia (Total Ammonia- N)	APHA (24th EDITION, 2023)4500NH3 – F/IS 3025 (Part 34/Sec1):2023 5(b)
222.	Water, surface water	Iron (Fe)	IS 3025 (Part 53):2024 1.1(a)
223.	Water, water from purifiers	Colour	IS 3025 (Part 4) – 2021 1. (a) IS 3025 (Part 4) – 2021 1.(b)
224.	Water, water from purifiers	Odour	IS 3025 (Part 5) – 2018
225.	Water, water from purifiers	Turbidity	IS 3025 (Part 10) 2023
226.	Water, water from purifiers	Temperature	IS 3025 (Part 9)2023
227.	Water, water from purifiers	pH	IS 3025 (Part 11) 2022
228.	Water, water from purifiers	Specific conductivity	IS 3025 (Part 14) 2013
229.	Water, water from purifiers	Residual free chlorine	IS 3025 (Part 26) – 2021 1.(c)
230.	Water, water from purifiers	Chloramine (mono and di)	IS 3025 (Part 26) – 2021 1.(c)
231.	Water, water from purifiers	Chloride (Cl)	IS 3025 (Part 32) 1988 (2)
232.	Water, water from purifiers	Total dissolved solids	IS 3025 (Part 16) 2023
233.	Water, water from purifiers	Total suspended solids	IS 3025 (Part 17) 2022
234.	Water, water from purifiers	Total solids	IS 3025 (Part 15) 2023
235.	Water, water from purifiers	Calcium (Ca)	IS 3025 (Part 40) 2024 1.(a)
236.	Water, water from purifiers	Magnesium (Mg)	IS 3025 (Part 46) 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
237.	Water, water from purifiers	Total hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
238.	Water, water from purifiers	Temporary hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
239.	Water, water from purifiers	Permanent hardness (CaCO ₃)	IS 3025 (Part 21) : 2009
240.	Water, water from purifiers	Dissolved oxygen (DO)	IS 3025 (Part 38) 1989
241.	Water, water from purifiers	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022 1(b)
242.	Water, water from purifiers	Nitrate (NO ₃)	IS 3025 (Part 34/Sec1):2023 6.1(a) IS 3025 (Part 34/Sec1):2023 6.1(b)
243.	Water, water from purifiers	Fluoride (F)	IS 3025 (Part 60) Sec 1:2023 1(a)
244.	Water, water from purifiers	Nitrite (NO ₂)	IS 3025 (Part 34/Sec1):2023 (7)
245.	Water, water from purifiers	Fluoride (F)	IS 3025 (Part 60) Sec 1:2023 1(a)
246.	Water, water from purifiers	Phenolic compounds (C ₆ H ₅ OH)	IS 3025 (Part 43) Sec1:2022 1. (b)
247.	Water, water from purifiers	Phosphate (PO ₄) / (P)	IS 3025 (Part 31) Sec1:2022 1. (b) IS 3025 (Part 31) Sec1:2022 1. (c)
248.	Water, water from purifiers	Phosphate (PO ₄) / (P)	IS 3025 (Part 31) Sec1:2022 1. (b) IS 3025 (Part 31) Sec1:2022 1. (c)
249.	Water, water from purifiers	Alkalinity (P and M) (CaCO ₃)	IS 3025 (Part 23):2023
250.	Water, water from purifiers	Alkalinity (HCO ₃)	IS 3025 (Part 23):2023
251.	Water, water from purifiers	Cyanide (CN)	IS 3025 (Part 27) Sec1:2021 1©

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
252.	Water, water from purifiers	Chromium (Cr(VI))	IS 3025 (Part 52):2003 1.1(a)
253.	Water, water from purifiers	Silica (SiO ₂)	IS 3025 (Part 35):2024 1. (b) IS 3025 (Part 35):2024 1 (c)
254.	Water, water from purifiers	Sulphide (H ₂ S)	IS 3025 (Part 29):2022 1(b)
255.	Water, water from purifiers	Anionic surface-active agents as (MBAS)	IS 3025 (Part- 68):2019
256.	Water, water from purifiers	Mineral Oil	IS 3025 (Part 39)2021
257.	Water, water from purifiers	Ammonia (Total Ammonia- N)	IS 3025 (Part 34/Sec1):2023 5(b)
258.	Water, water from purifiers	Bromate (BrO ₃)	TPM/MSK/INST-156
259.	Water, dialysis water for medicinal use	Calcium (Ca)	IS 3025 (Part 40)2024 (a)
260.	Water, dialysis water for medicinal use	Magnesium (Mg)	IS 3025 (Part 46)2023
261.	Water, dialysis water for medicinal use	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022
262.	Water, dialysis water for medicinal use	Nitrate (N)	IS 3025 (Part 34/Sec1):2023 (a) IS 3025 (Part 34/Sec1):2023 (b)
263.	Water, dialysis water for medicinal use	Fluoride (F)	IS 3025 (Part 60) Sec 1:2023
264.	Water, dialysis water for medicinal use	Total Solids	IS 3025 (Part 15)2023
265.	Water, RO water/filter water	Calcium (Ca)	IS 3025 (Part 40)2024 (a)
266.	Water, RO water/filter water	Magnesium (Mg)	IS 3025 (Part 46)2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
267.	Water, RO water/filter water	Sulphate (SO ₄)	IS 3025 (Part 24) Sec 1:2022
268.	Water, RO water/filter water	Nitrate (N)	IS 3025 (Part 34/Sec1):2023 (a) IS 3025 (Part 34/Sec1):2023 (b)
269.	Water, RO water/filter water	Fluoride (F)	IS 3025 (Part 60) Sec 1:2023
270.	Water, RO water/filter water	Total solids	IS 3025 (Part 15)2023

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
1.	Bakery & confectionery products	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833 - 1:2013
2.	Bakery & confectionery products	Yeast & mould count	ISO 21527(P 2):2008
3.	Bakery & confectionery products	E. coli (detection)	IS 5887 (Part 1):1976
4.	Bakery & confectionery products	S. aureus (enumeration)	IS 5887 (Part 2):1976
5.	Bakery & confectionery products	S. aureus (detection)	IS 5887 (Part 2):1976
6.	Bakery & confectionery products	Coliform count	IS 5401 (Part 1):2012
7.	Bakery & confectionery products	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
8.	Bakery & confectionery products	Bacillus cereus (enumeration)	IS 5887 (Part 6):2012
9.	Bakery & confectionery products	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
10.	Bakery & confectionery products	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
11.	Bakery & confectionery products	Shigella (detection)	IS 5887 (Part 7):1999
12.	Bakery & confectionery products	Clostridium perfringens (enumeration)	ISO 15213 (Part 2):2023

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
13.	Bakery & confectionery products	Yeast & mould count	IS 5403: 1999
14.	Bakery & confectionery products	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ aerobic plate count	IS 5402 (Part 1): 2021
15.	Bakery & confectionery products	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5):1976
16.	Bakery & confectionery products	Vibrio parahaemolyticus (detection)	ISO 21872 (Part 1):2017
17.	Bakery & confectionery products	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
18.	Bakery & confectionery products	Salmonella (detection)	ISO 6579-1:2017
19.	Bakery & confectionery products	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
20.	Beverages (alcoholic/non-alcoholic)	Coliform count	IS 5401 (Part 1):2012
21.	Beverages (alcoholic/non-alcoholic)	Coliform (detection)	IS 5401 (Part 2):2012
22.	Beverages (alcoholic/non-alcoholic)	Coliform (detection)	IS 5401 (Part 2):2012
23.	Beverages (alcoholic/non-alcoholic)	Coliform	FDA BAM Chapter 4, 2020
24.	Beverages (alcoholic/non-alcoholic)	E. coli (detection)	IS 5887 (Part 1):1976

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
25.	Beverages (alcoholic/non-alcoholic)	Staphylococcus aureus (detection)	IS 5887 (Part 2):1976
26.	Beverages (alcoholic/non-alcoholic)	Shigella (detection)	IS 5887 (Part 7):1999
27.	Beverages (alcoholic/non-alcoholic)	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
28.	Beverages (alcoholic/non-alcoholic)	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
29.	Beverages (alcoholic/non-alcoholic)	Yeast & mould count	IS 5403: 1999
30.	Beverages (alcoholic/non-alcoholic)	Yeast & mould count	ISO 21527 (Part 1):2008
31.	Beverages (alcoholic/non-alcoholic)	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833 - 1:2013
32.	Beverages (alcoholic/non-alcoholic)	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	IS 5402 (Part 1): 2021
33.	Beverages (alcoholic/non-alcoholic)	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
34.	Beverages (alcoholic/non-alcoholic)	Salmonella (detection)	ISO 6579-1:2017
35.	Beverages (alcoholic/non-alcoholic)	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
36.	Beverages (alcoholic/non-alcoholic)	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
37.	Cereals, pulses & cereal products	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833 - 1:2013
38.	Cereals, pulses & cereal products	Yeast & mould count	ISO 21527(P 2):2008
39.	Cereals, pulses & cereal products	Shigella (detection)	IS 5887 (Part 7):1999
40.	Cereals, pulses & cereal products	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
41.	Cereals, pulses & cereal products	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
42.	Cereals, pulses & cereal products	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
43.	Cereals, pulses & cereal products	Listeria monocytogenes (detection)	ISO 11290 (Part 1):2017
44.	Cereals, pulses & cereal products	Coliform count	ISO 4832:2006
45.	Cereals, pulses & cereal products	Bacillus cereus (enumeration)	ISO 7932: 2004
46.	Cereals, pulses & cereal products	S. aureus (enumeration)	ISO 6888 (Part 1): 2021
47.	Cereals, pulses & cereal products	Anaerobic spore count (Sulfite reducing clostridia)	ISO 15213 (Part 1):2023

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
48.	Cereals, pulses & cereal products	Bacillus cereus (enumeration)	IS 5887 (Part 6):2012
49.	Cereals, pulses & cereal products	Coliform count	IS 5401 (Part 1):2012
50.	Cereals, pulses & cereal products	E. coli (detection)	IS 5887 (Part 1):1976
51.	Cereals, pulses & cereal products	Staphylococcus aureus (detection)	IS 5887 (Part 2):1976
52.	Cereals, pulses & cereal products	Yeast & mould count	IS 5403: 1999
53.	Cereals, pulses & cereal products	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	IS 5402 (Part 1): 2021
54.	Cereals, pulses & cereal products	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
55.	Cereals, pulses & cereal products	Salmonella (detection)	ISO 6579-1:2017
56.	Cereals, pulses & cereal products	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
57.	Cereals, pulses & cereal products	Staphylococcus aureus (enumeration)	IS 5887 (Part 2):1976

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
58.	Milk & dairy products - except human milk	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833(P 1):2013
59.	Milk & dairy products - except human milk	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833(P 1):2013
60.	Milk & dairy products - except human milk	Yeast & mould count	ISO 21527(P 1):2008
61.	Milk & dairy products - except human milk	Yeast & mould count	ISO 21527(P 1):2008
62.	Milk & dairy products - except human milk	Yeast & mould count	ISO 21527(P 2):2008
63.	Milk & dairy products - except human milk	Coliform count	ISO 4832:2006
64.	Milk & dairy products - except human milk	Coliform count	ISO 4832:2006
65.	Milk & dairy products - except human milk	Bacillus cereus (enumeration)	ISO 7932: 2004
66.	Milk & dairy products - except human milk	Bacillus cereus (enumeration)	ISO 7932: 2004
67.	Milk & dairy products - except human milk	S. aureus (enumeration)	ISO 6888 (Part 1): 2021

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
68.	Milk & dairy products - except human milk	S. aureus (enumeration)	ISO 6888 (Part 1): 2021
69.	Milk & dairy products - except human milk	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
70.	Milk & dairy products - except human milk	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
71.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	ISO 11290 (Part 1):2017
72.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	ISO 11290 (Part 1):2017
73.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	ISO 11290 (Part 1):2017
74.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	ISO 11290 (Part 1):2017
75.	Milk & dairy products - except human milk	Enterobacter sakazakii (Cronobacter spp.) Detection	ISO 22964: 2017
76.	Milk & dairy products - except human milk	Enterobacter sakazakii (Cronobacter spp.) Detection	ISO 22964: 2017
77.	Milk & dairy products - except human milk	E. coli (enumeration)	IS 5887 (Part 1):1976
78.	Milk & dairy products - except human milk	E. coli (enumeration)	IS 5887 (Part 1):1976
79.	Milk & dairy products - except human milk	E. coli (detection)	IS 5887 (Part 1):1976

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
80.	Milk & dairy products - except human milk	E. coli (detection)	IS 5887 (Part 1):1976
81.	Milk & dairy products - except human milk	Staphylococcus aureus (enumeration)	IS 5887 (Part 2):1976
82.	Milk & dairy products - except human milk	Staphylococcus aureus (enumeration)	IS 5887 (Part 2):1976
83.	Milk & dairy products - except human milk	Staphylococcus aureus (enumeration)	IS 5887 (Part 8/Sec I): 2023
84.	Milk & dairy products - except human milk	Staphylococcus aureus (enumeration)	IS 5887 (Part 8/Sec I):2023
85.	Milk & dairy products - except human milk	Staphylococcus aureus (detection)	IS 5887 (Part 2):1976
86.	Milk & dairy products - except human milk	Staphylococcus aureus (detection)	IS 5887 (Part 2):1976
87.	Milk & dairy products - except human milk	Coliform count	IS 5401 (Part 1):2012
88.	Milk & dairy products - except human milk	Coliform count	IS 5401 (Part 1):2012
89.	Milk & dairy products - except human milk	Bacillus cereus (enumeration)	IS 5887 (Part 6):2012
90.	Milk & dairy products - except human milk	Bacillus cereus (enumeration)	IS 5887 (Part 6):2012
91.	Milk & dairy products - except human milk	Clostridium perfringens (enumeration)	ISO 15213 (Part 2):2023
92.	Milk & dairy products - except human milk	Clostridium perfringens (enumeration)	ISO 15213 (Part 2):2023

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Accreditation Standard: ISO/IEC 17025:2017

Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
93.	Milk & dairy products - except human milk	Vibrio parahaemolyticus (detection)	ISO 21872 (Part 1):2017
94.	Milk & dairy products - except human milk	Vibrio parahaemolyticus (detection)	ISO 21872 (Part 1):2017
95.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
96.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
97.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
98.	Milk & dairy products - except human milk	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
99.	Milk & dairy products - except human milk	Shigella (detection)	IS 5887 (Part 7):1999
100.	Milk & dairy products - except human milk	Shigella (detection)	IS 5887 (Part 7):1999
101.	Milk & dairy products - except human milk	Faecal streptococci /enterococci	IS 5887 (Part 2):1976
102.	Milk & dairy products - except human milk	Faecal streptococci /enterococci	IS 5887 (Part 2):1976
103.	Milk & dairy products - except human milk	Anaerobic spore count (Sulfite reducing clostridia)	ISO 15213 (Part 1):2023
104.	Milk & dairy products - except human milk	Anaerobic spore count (Sulfite reducing clostridia)	ISO 15213 (Part 1):2023

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
105.	Milk & dairy products - except human milk	Mesophilic aerobic spore count	Compendium of methods for the micro biological examination of food, 5th edtn, 2015 Chapter 23, 23.51
106.	Milk & dairy products - except human milk	Mesophilic aerobic spore count	Compendium of methods for the micro biological examination of food, 5th edtn, 2015 Chapter 23, 23.51
107.	Milk & dairy products - except human milk	Mesophilic anaerobic spore count	Compendium of methods for the micro biological examination of food, 5th edtn, 2015 Chapter 24, 24.52
108.	Milk & dairy products - except human milk	Mesophilic anaerobic spore count	Compendium of methods for the micro biological examination of food, 5th edtn, 2015 Chapter 24, 24.52
109.	Milk & dairy products - except human milk	Flat sour organisms as bacillus coagulans	Compendium of methods for the micro biological examination of food, 5th edtn, 2015 Chapter 25, 25.62
110.	Milk & dairy products - except human milk	Flat sour organisms as bacillus coagulans	Compendium of methods for the micro biological examination of food, 5th edtn, 2015 Chapter 25, 25.62
111.	Milk & dairy products - except human milk	Thermophilic bacterial count	IS 1479 (Part 3): 1977
112.	Milk & dairy products - except human milk	Thermophilic bacterial count	IS 1479 (Part 3): 1977
113.	Milk & dairy products - except human milk	E. coli o157 and vero or shiga toxin producing E. coli	ISO 16654: 2001

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
114.	Milk & dairy products - except human milk	E. coli o157 and vero or shiga toxin producing E. coli	ISO 16654: 2001
115.	Milk & dairy products - except human milk	Commercial sterility (ph variation on 7 days incubation)	IS 4238 (Appendix D): 2020
116.	Milk & dairy products - except human milk	Commercial sterility (as incubation test after 14 days incubation)	IS 4884 (Appendix A): 1986
117.	Milk & dairy products - except human milk	Yeast & mould count	IS 5403: 1999
118.	Milk & dairy products - except human milk	Yeast & mould count	IS 5403: 1999
119.	Milk & dairy products - except human milk	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	IS 5402 (Part 1): 2021
120.	Milk & dairy products - except human milk	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	IS 5402 (Part 1): 2021
121.	Milk & dairy products - except human milk	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
122.	Milk & dairy products - except human milk	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
123.	Milk & dairy products - except human milk	Salmonella (detection)	ISO 6579-1:2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
124.	Milk & dairy products - except human milk	Salmonella (detection)	ISO 6579-1:2017
125.	Milk & dairy products - except human milk	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
126.	Milk & dairy products - except human milk	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
127.	Tea	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833(P 1):2013
128.	Tea	Yeast & mould count	ISO 21527(P 2):2008
129.	Tea	Coliform count	IS 5401 (Part 1):2012
130.	Tea	E. coli (detection)	IS 5887 (Part 1):1976
131.	Tea	Staphylococcus aureus (detection)	IS 5887 (Part 2):1976
132.	Tea	Shigella (detection)	IS 5887 (Part 7):1999
133.	Tea	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
134.	Tea	Bacillus cereus (enumeration)	IS 5887 (Part 6):2012
135.	Tea	Bacillus cereus (enumeration)	ISO 7932: 2004
136.	Tea	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
137.	Tea	Yeast & mould count	IS 5403: 1999

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
138.	Tea	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	IS 5402 (Part 1): 2021
139.	Tea	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
140.	Tea	Salmonella (detection)	ISO 6579-1:2017
141.	Tea	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
142.	Tea	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
143.	Tea	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
144.	Tea	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
145.	Herbs, spices & condiments	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	IS 5402 (Part 1): 2021
146.	Herbs, spices & condiments	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833(P 1):2013
147.	Herbs, spices & condiments	Yeast & mould count	ISO 21527(P 2):2008

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
148.	Herbs, spices & condiments	Yeast & mould count	ISO 21527(P 1):2008
149.	Herbs, spices & condiments	S. aureus (enumeration)	ISO 6888 (Part 1): 2021
150.	Herbs, spices & condiments	Yeast & mould count	IS 5403: 1999
151.	Herbs, spices & condiments	Coliform count	IS 5401 (Part 1): 2012
152.	Herbs, spices & condiments	Bacillus cereus (enumeration)	IS 5887 (Part 6): 2012
153.	Herbs, spices & condiments	Shigella (detection)	IS 5887 (Part 7):1999
154.	Herbs, spices & condiments	Listeria monocytogenes (detection)	IS 14988 (Part 1):2020
155.	Herbs, spices & condiments	E. coli (detection)	IS 5887 (Part 1):1976
156.	Herbs, spices & condiments	Staphylococcus aureus (detection)	IS 5887 (Part 2):1976
157.	Herbs, spices & condiments	Anaerobic spore count (Sulphite reducing clostridia)	ISO 15213 (Part1):2023
158.	Herbs, spices & condiments	Staphylococcus aureus (enumeration)	IS 5887 (Part 2):1976
159.	Herbs, spices & condiments	Enterobacteriaceae (enumeration)	ISO 21528 (Part 2): 2017
160.	Herbs, spices & condiments	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020
161.	Herbs, spices & condiments	Salmonella (detection)	ISO 6579-1:2017
162.	Herbs, spices & condiments	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural Products		
163.	Herbs, spices & condiments	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
164.	Herbs, spices & condiments	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
165.	Herbs, spices & condiments	Vibrio parahaemolyticus (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
1.	Surface - swab	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833 (Part 1):2013 ISO (ISO 18593:2018)
2.	Surface - swab	Coliform	ISO 4832:2006 (ISO 18593:2018)
3.	Surface - swab	Yeast & mould count	ISO 21527 (Part 1):2008 (ISO 18593:2018)
4.	Surface - swab	Salmonella	ISO 6579 (Part 1):2017 (ISO 18593:2018)
5.	Surface - swab	E.coli	ISO 16649 (Part 3):2015 (ISO 18593:2018)
6.	Surface - swab	S. aureus	ISO 6888 (Part 3):2003 (ISO 18593:2018)
7.	Surface - swab	Listeria monocytogenes	ISO 11290 (Part 1) (ISO 18593:2018)
8.	Air monitoring	Total plate count/aerobic plate count/aerobic microbial count/aerobic mesophilic count/ total viable count	ISO 4833 (Part 1):2013
9.	Air monitoring	Yeast & mould count	ISO 21527 (Part 2):2008
10.	Effluents/waste water	Total coliform	Standard methods for the examination of water & waste water, 24th edtn, 9221 B. 2023

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Accreditation Standard: ISO/IEC 17025:2017

Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
11.	Effluents/waste water	Total coliform	Standard methods for the examination of water & waste water, 24th edtn, 9221 B, 2023
12.	Effluents/waste water	Faecal coliform	Standard methods for the examination of water & waste water, 24th edtn, 9221 E, 2023
13.	Effluents/waste water	Faecal coliform	Standard methods for the examination of water & waste water, 24th edtn, 9221 E, 2023
14.	Effluents/waste water	E. coli	Standard methods for the examination of water & waste water, 24th edtn, 9221 F, 2023
15.	Effluents/waste water	E. coli	Standard methods for the examination of water & waste water, 24th edtn, 9221 F, 2023
16.	Effluents/waste water	Faecal enterococcus/ streptococcus groups	Standard methods for the examination of water & waste water, 24th edtn, Section-9230B, 2023
17.	Effluents/waste water	Faecal enterococcus/ streptococcus groups	Standard methods for the examination of water & waste water, 24th edtn, Section-9230B, 2023

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Accreditation Standard: ISO/IEC 17025:2017

Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Water (drinking water)	Total coliform bacteria	IS 1622:1981
2.	Water (drinking water)	Total coliform bacteria	IS 1622:1981
3.	Water (drinking water)	Total coliform bacteria	IS 15185:2016
4.	Water (drinking water)	E. coli or thermo tolerant coliform bacteria	IS 1622:1981
5.	Water (drinking water)	E. coli or thermo tolerant coliform bacteria	IS 1622:1981
6.	Water (drinking water)	E. coli or thermo tolerant coliform bacteria	IS 15185:2016
7.	Water (drinking water)	Faecal streptococci	IS 1622:1981
8.	Water (drinking water)	Faecal streptococci	IS 1622:1981
9.	Water (drinking water)	Sulphite reducing anaerobes (clostridia)	IS 13428 (Annexure C):2005
10.	Water (drinking water)	Faecal coliform	IS 1622:1981
11.	Water (drinking water)	Faecal coliform	IS 1622:1981
12.	Water (drinking water)	Total bacterial count/ standard plate count/ total plate count	IS 1622:1981
13.	Water (drinking water)	Total bacterial count/ standard plate count/ total plate count	IS 5402 (Part 1): 2021
14.	Water (drinking water)	Salmonella	IS 5887 (Part 3):1999
15.	Water (drinking water)	Salmonella (detection)	IS 5887 (Part 3; Section 1):2020

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
16.	Water (drinking water)	Salmonella	IS 15187:2016
17.	Water (drinking water)	Pseudomonas aeruginosa	IS 13428 (Annexure D):2005
18.	Water (drinking water)	Ms2 phage	USEPA 1602
19.	Water (drinking water)	Ms2 phage	USEPA 1602
20.	Water (drinking water)	Vibrio cholerae (detection)	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
21.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	Total coliform bacteria	IS 1622:1981
22.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	Total coliform bacteria	IS 1622:1981
23.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	Total coliform bacteria	IS 15185:2016
24.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	E. coli or thermo tolerant coliform bacteria	IS 1622:1981

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
25.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	E. coli or thermo tolerant coliform bacteria	IS 1622:1981
26.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	E. coli or thermo tolerant coliform bacteria	IS 15185:2016
27.	Water (other: raw water/RO water/dm water/process water/treated water, bottle wash water/distilled water)	Total bacterial count/ standard plate count/ total plate count	IS 1622:1981
28.	Water (ground water/ surface water)	Total coliform	Standard methods for the examination of water & waste water, 24th edtn, 9221 B, 2023
29.	Water (ground water/ surface water)	Total coliform	Standard methods for the examination of water & waste water, 24th edtn 9221 B, 2023
30.	Water (ground water/ surface water)	Total coliform	IS 1622:1981
31.	Water (ground water/ surface water)	Total coliform	IS 1622:1981
32.	Water (ground water/ surface water)	Total coliform	IS 15185:2016

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
33.	Water (ground water/ surface water)	Faecal coliform	Standard methods for the examination of water & waste water, 24th edtn 9221 E, 2023
34.	Water (ground water/ surface water)	Faecal coliform	Standard methods for the examination of water & waste water, 24th edtn, 9221 E, 2023
35.	Water (ground water/ surface water)	Faecal coliform	IS 1622:1981
36.	Water (ground water/ surface water)	Faecal coliform	IS 1622:1981
37.	Water (ground water/ surface water)	E.coli	Standard methods for the examination of water & waste water, 24th edtn, 9221 F, 2023
38.	Water (ground water/ surface water)	E.coli	Standard methods for the examination of water & waste water, 24th edtn, 9221 F, 2023
39.	Water (ground water/ surface water)	E.coli	IS 1622:1981
40.	Water (ground water/ surface water)	E.coli	IS 1622:1981
41.	Water (ground water/ surface water)	E.coli	IS 15185:2016
42.	Water (ground water/ surface water)	Faecal enterococcus/ streptococcus groups	Standard methods for the examination of water & waste water, 24th edtn, 9230B, 2023

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
43.	Water (ground water/ surface water)	Faecal enterococcus/ streptococcus groups	Standard methods for the examination of water & waste water, 24th edtn, 9230B, 2023
44.	Water (packaged drinking water)	E.coli	IS 15185:2016
45.	Water (packaged drinking water)	E.coli	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.025:2024
46.	Water (packaged drinking water)	S. aureus	IS 5887 (Part 2):1976
47.	Water (packaged drinking water)	S. aureus	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.036:2024
48.	Water (packaged drinking water)	Faecal streptococci	IS 5887 (Part 2):1976
49.	Water (packaged drinking water)	Faecal streptococci	IS 15186:2002
50.	Water (packaged drinking water)	Enterococci (faecal streptococci)	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.027:2024
51.	Water (packaged drinking water)	Sulphite reducing anaerobes (clostridia)	IS 13428 (Annexure C):2024

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
52.	Water (packaged drinking water)	Sulphite reducing anaerobes (clostridia)	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.033:2024
53.	Water (packaged drinking water)	Pseudomonas aeruginosa	IS 13428 (Annexure D): 2024
54.	Water (packaged drinking water)	Pseudomonas aeruginosa	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.031:2024
55.	Water (packaged drinking water)	Aerobic microbial count (22° C)	IS 5402 (Part1): 2021
56.	Water (packaged drinking water)	Aerobic microbial count (22° C)	FSSAI Manuals of Methods of analysis of Water: FSSAI 15.024:2023
57.	Water (packaged drinking water)	Aerobic microbial count (37°C)	IS 5402 (Part1): 2021
58.	Water (packaged drinking water)	Aerobic microbial count (37°C)	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.024:2024
59.	Water (packaged drinking water)	Yeast & mould	ISO 21527 (Part 1): 2008
60.	Water (packaged drinking water)	Yeast & mould	IS 16069 (Part 1): 2013

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Building No. P-48, Udayan Industrial Estate, 3, Pagladanga Road,
Kolkata - 700015, West Bengal, India

QAI/CIA/TL/2024/0094

Valid from: 31 December 2024

Valid until: 30 December 2026

Accreditation Standard: ISO/IEC 17025:2017

Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
61.	Water (packaged drinking water)	Yeast & mould	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.032:2024
62.	Water (packaged drinking water)	Salmonella	IS 15187 :2016
63.	Water (packaged drinking water)	Salmonella	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.029:2024
64.	Water (packaged drinking water)	Salmonella	IS 5887 (Part 3/Section 1):2020
65.	Water (packaged drinking water)	Shigella	IS 5887(Part7): 1999
66.	Water (packaged drinking water)	Shigella	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.030:2024
67.	Water (packaged drinking water)	Vibrio cholera	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
68.	Water (packaged drinking water)	Vibrio cholera	FSSAI Manuals of Methods of analysis of Water: FSSAI 15.035:2024
69.	Water (packaged drinking water)	Vibrio parahaemolyticus	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
70.	Water (packaged drinking water)	Vibrio parahaemolyticus	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.034:2024
71.	Water (packaged drinking water)	Coliform bacteria	IS 15185:2016
72.	Water (packaged drinking water)	Coliform bacteria	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.025:2024
73.	Water (packaged drinking water)	Coliform bacteria	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.026:2024
74.	Water (packaged natural mineral water)	E.coli	IS 15185:2016
75.	Water (packaged natural mineral water)	E.coli	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.025:2024
76.	Water (packaged natural mineral water)	S. aureus	IS 5887 (Part 2):1976
77.	Water (packaged natural mineral water)	S. aureus	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.036:2024

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
78.	Water (packaged natural mineral water)	Faecal streptococci	IS 5887 (Part 2):1976
79.	Water (packaged natural mineral water)	Faecal streptococci	IS 15186:2002
80.	Water (packaged natural mineral water)	Enterococci (faecal streptococci)	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.027:2024
81.	Water (packaged natural mineral water)	Sulphite reducing anaerobes (clostridia)	IS 13428 (Annexure C):2024
82.	Water (packaged natural mineral water)	Sulphite reducing anaerobes (clostridia)	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.033:2024
83.	Water (packaged natural mineral water)	Pseudomonas aeruginosa	IS 13428 (Annexure D):2024
84.	Water (packaged natural mineral water)	Pseudomonas aeruginosa	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.034:2024
85.	Water (packaged natural mineral water)	Yeast & mould	ISO 21527 (Part 1): 2008
86.	Water (packaged natural mineral water)	Yeast & mould	IS 16069 (Part 1): 2013

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
87.	Water (packaged natural mineral water)	Yeast & mould	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.032:2024
88.	Water (packaged natural mineral water)	Salmonella	IS 15187 :2016
89.	Water (packaged natural mineral water)	Salmonella	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.029:2024
90.	Water (packaged natural mineral water)	Salmonella	IS 5887 (Part 3/Section 1):2020
91.	Water (packaged natural mineral water)	Shigella	IS 5887 (Part 7):1976
92.	Water (packaged natural mineral water)	Shigella	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.030:2024
93.	Water (packaged natural mineral water)	Vibrio cholera	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.035:2024
94.	Water (packaged natural mineral water)	Vibrio cholera	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
95.	Water (packaged natural mineral water)	Vibrio parahaemolyticus	IS 5887 (Part 5, Sec1):2023/ISO 21872 (Part 1):2017
96.	Water (packaged natural mineral water)	Vibrio parahaemolyticus	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.034:2024
97.	Water (packaged natural mineral water)	Coliform bacteria	IS 15185:2016
98.	Water (packaged natural mineral water)	Coliform bacteria	FSSAI Manuals of FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.025:2024
99.	Water (water for industrial purpose)	Legionella sp.	ISO 11731:2017
100.	Water (water for industrial purpose)	Legionella sp.	ISO 11731:2017
101.	Water (water for medicinal purpose)	Bacterial endotoxin test	Indian Pharmacopoeia 2022 Vol. 1
102.	Water (water for medicinal purpose)	Aerobic microbial count/ standard plate count/ total plate count	IS 1622:1981
103.	Water (water for processed food industry)	Standard plate count/ aerobic microbial count/ total plate count	IS 1622:1981

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
104.	Water (water for processed food industry)	Standard plate count/ aerobic microbial count/ total plate count	FSSAI Manual of Methods of analysis- Microbiological examination of food and water, May 2024: FSSAI 15.024:2024
105.	Water (water for processed food industry)	Coliform bacteria	IS 1622:1981
106.	Water (water for processed food industry)	Coliform bacteria	FSSAI Manuals of Methods of analysis of Water-2016
107.	Water (water for processed food industry)	Coliform bacteria	IS 1622:1981
108.	Water (water for processed food industry)	Coliform bacteria	FSSAI Manuals of Methods of analysis of Water-2016
109.	Water (water for processed food industry)	E.coli or thermo tolerant coliform bacteria	IS 1622:1981
110.	Water (water for processed food industry)	E.coli or thermo tolerant coliform bacteria	IS 1622:1981
111.	Water (water for processed food industry)	Proteolytic organisms	Compendium of methods for the micro biological examination of food, 5th edtn, 2015, Chapter 16, 16.41
112.	Water (water for processed food industry)	Proteolytic organisms	FSSAI Manuals of Methods of analysis of Water-2016
113.	Water (water for processed food industry)	Lipolytic organisms	Compendium of methods for the micro biological examination of food, 5th edtn, 2015, Chapter 15, 15.4

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
114.	Water (water for processed food industry)	Lipolytic organisms	FSSAI Manuals of Methods of analysis of Water-2016
115.	Water (water for processed food industry)	Thermophilic organisms	FSSAI Manuals of Methods of analysis of Water-2016
116.	Water (water for swimming pool & spas)	Standard plate count/ total bacterial count/ total plate	IS 3328:1993
117.	Water (water for swimming pool & spas)	Total coliform	IS 1622:1981
118.	Water (water for swimming pool & spas)	Total coliform	IS 1622:1981
119.	Water (water for swimming pool & spas)	E.coli	IS 1622:1981
120.	Water (water for swimming pool & spas)	E.coli	IS 1622:1981
121.	Water (water for swimming pool & spas)	Faecal coliform	IS 1622:1981
122.	Water (water for swimming pool & spas)	Faecal coliform	IS 1622:1981
123.	Water (water for swimming pool & spas)	Legionella sp.	ISO 11731:2017
124.	Water (water for swimming pool & spas)	Legionella sp.	ISO 11731:2017

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Molecular Analysis		
1.	Vegetables & vegetable products	Salmonella (detection) by RT PCR	TPM/MSK/MB/01, 10th June 2020
2.	Vegetables & vegetable products	Salmonella (detection) by RT PCR	TPM/MSK/MB/11, 18 th Oct 2022
3.	Meat & meat products	Salmonella (detection) by RT PCR	TPM/MSK/MB/01, 10th June 2020
4.	Meat & meat products	Salmonella (detection) by RT PCR	TPM/MSK/MB/11, 18 th Oct 2022
5.	Milk & dairy products	Salmonella (detection) by RT PCR	TPM/MSK/MB/01, 10th June 2020
6.	Milk & dairy products	Salmonella (detection) by RT PCR	TPM/MSK/MB/11, 18 th Oct 2022
7.	Herbs, spices & condiments	Salmonella (detection) by RT PCR	TPM/MSK/MB/01, 10th June 2020
8.	Ready to eat and cooked foods	Salmonella (detection) by RT PCR	TPM/MSK/MB/01, 10th June 2020

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	GM Products		
1.	Rice and rice products	Detection of Cauliflower Mosaic Virus 35S promoter (P-35S)	TPM/MSK/MB/06, Issue Date: 10 Jan 2022
2.	Rice and rice products	Detection of Nopaline synthase terminator (T-nos)	TPM/MSK/MB/07, Issue Date: 12 Feb 2022
3.	Maize and maize products	Detection of Cauliflower Mosaic Virus 35S promoter (P-35S)	TPM/MSK/MB/06, Issue Date: 10 Jan 2022
4.	Maize and maize products	Detection of Nopaline synthase terminator (T-nos)	TPM/MSK/MB/07, Issue Date: 12 Feb 2022
5.	Soya & soya products	Detection of Cauliflower Mosaic Virus 35S promoter (P-35S)	TPM/MSK/MB/06, Issue Date: 10 Jan 2022
6.	Soya & soya products	Detection of Nopaline synthase terminator (T-nos)	TPM/MSK/MB/07, Issue Date: 12 Feb 2022

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