



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name NAVJYOTI ANALYTICS AND RESEARCH LABORATORY(UNIT OF NAVJYOTI COMMODITY MANAGEMENT SERVICES LIMITED), D- 601, SIGNATURE-2, SANAND ROAD, SARKHEJ, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7337 Page No. : 1 / 39

Validity 06/06/2018 to 05/06/2020 Last Amended on 09/07/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cereals , Pulses & Cereal Products	E.Coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g)
2	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cereals , Pulses & Cereal Products	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g)
3	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Coffee & Cocoa Products	E.Coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g)
4	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Coffee & Cocoa Products	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g)
5	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Herbs , Spices & Condiments	Salmonella	IS 5887 (Part 3); ISO 6579-1 : 2017 : 1999	Qualitative(Present/Absent/25 g)
6	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Coliforms	IS 5401 (Part 1): 2012	10 cfu/g, cfu/ml to 100000 cfu/g, cfu/ml
7	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	E. coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g/ml)
8	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g/ml)
9	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Total Plate Count	IS 5402: 2012	10 cfu/g , cfu/ml to 100000 cfu/g , cfu/ml



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<b>Permanent Facility</b>					
10	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Yeast & Mould	IS 5403: 1999	10 cfu/g, cfu/ml to 100000 cfu/g, cfu/ml
11	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Oil Seeds & by products	Coliforms	IS 5401 (Part 1): 2012	equal or more than 10 cfu/g
12	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Oil Seeds & by products	E. coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g)
13	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Oil Seeds & by products	Total Plate Count	IS 5402: 2012	10 cfu/g to 100000 cfu/g
14	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Oil Seeds & by products	Yeast & Mould	IS 5403: 1999	10 cfu/g to 100000 cfu/g
15	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Oil Seeds & By-Products	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g)
16	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other specified food items	E.coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g)
17	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Other specified food items	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g)
18	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Snacks & Instant Mixes	E. coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g)



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19	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Snacks & Instant Mixes	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g)
20	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Tea	Coliforms	IS 5401 (Part 1): 2012	10 cfu/g to 100000 cfu/g
21	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Tea	E.coli	IS 5887 (Part 1): 1976	Qualitative(Present/Absent/25 g)
22	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Tea	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/25 g)
23	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Tea	Total Plate Count	IS 5402: 2012	10 cfu/g to 100000 cfu/g
24	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Tea	Yeast & Mould	IS 5403: 1999	10 cfu/g to 100000 cfu/g
25	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Aerobic Microbial Count at 22 Degree C	IS 5402: 2012	0 CFU / ml to 100000 cfu/ml
26	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Aerobic Microbial Count at 37 Degree C	IS 5402: 2012	0 CFU / ml to 100000 CFU / ml



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<b>Permanent Facility</b>					
27	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Coliforms	IS 15185 : 2016	Qualitative(Present or Absent / 250 ml)
28	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	E.coli	IS 15185: 2016	Qualitative(Present or Absent / 250 ml)
29	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Faecal streptococci	IS 5887 (Part 2): 1976	Qualitative(Present or Absent / 250 ml)
30	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Pseudomonas aeruginosa	IS 13428 (Annx D): 2005	Qualitative(Present or Absent / 250 ml)
31	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Salmonella	IS 15187: 2016	Qualitative(Present/Absent/250ml)
32	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Shigella	IS 5887 (Part 7): 1999	Qualitative(Present/Absent/250ml)
33	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Staphylococcus aureus	IS 5887 (Part 2): 1976	Qualitative(Present or Absent / 250 ml)



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34	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Sulphite Reducing Anaerobes	IS 13428 (Annx C): 2005	Qualitative(Present or Absent / 50 ml)
35	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Vibrio cholerae	IS 5887 (Part 5): 1976	Qualitative(Present/Absent/250ml)
36	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	Qualitative(Present/Absent/250ml)
37	BIOLOGICAL- WATER	Packaged Drinking Water (Other than Packaged Mineral Water)	Yeast & Mould	IS 5403: 1999	Qualitative(Present/Absent/250ml)
38	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Coliforms	IS 5401 (Part 1): 2012	Qualitative(Present/ Absent /250 ml)
39	BIOLOGICAL- WATER	Packaged Natural Mineral Water	E. coli	IS 5887 (Part 1): 1976	Qualitative(Present/ Absent /250 ml)
40	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Faecal streptococci	IS 5887 (Part 2): 1976	Qualitative(Present/Absent/250ml)
41	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Pseudomonas aeruginosa	IS 13428 (Annx D): 2005	Qualitative(Present/Absent/250ml)
42	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Salmonella	IS 5887 (Part 3): 1999	Qualitative(Present/Absent/250ml)
43	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Shigella	IS 5887 (Part 7): 1999	Qualitative(Present/Absent/250ml)



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<b>Permanent Facility</b>					
44	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Staphylococcus aureus	IS 5887 (Part 2): 1976	Qualitative(Present/Absent/250ml)
45	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Sulphite Reducing Anaerobes	IS 13428 (Annx C): 2005	Qualitative(Present/Absent/250ml)
46	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Vibrio cholerae	IS 5887 (Part 5): 1976	Qualitative(Present/Absent/250ml)
47	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	Qualitative(Present or Absent / 250 ml)
48	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Yeast & Mould	IS 5403: 1999	Qualitative(Present/Absent/250ml)
49	BIOLOGICAL- WATER	Water (Others)	Standard Plate Count	IS 1622: 1981	0 cfu/ml to 100000 cfu/ml
50	CHEMICAL- ANIMAL FOOD & FEEDS	Animal Feed/ Extraction Meal ( Soyabean Meal, Cotton Seed meal, Corn meal, Castor Meal, Castor DOC, Soya DOC, Cotton seed DOC, Rape seed meal ,Rice bran , Poultry Feed etc	Acid insoluble Ash	Is 7874 (Part 1) (RA: 2014): 1975	0.01 % to 3 %
51	CHEMICAL- ANIMAL FOOD & FEEDS	Animal Feed/ Extraction Meal ( Soyabean Meal, Cotton Seed meal, Corn meal, Castor Meal, Castor DOC, Soya DOC, Cotton seed DOC, Rape seed meal ,Rice bran ,Poultry feed etc.	Crude Protein (Nx6.25)	ISO 5983-2: 2009	0.1 % to 60 %



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<b>Permanent Facility</b>					
52	CHEMICAL- ANIMAL FOOD & FEEDS	Animal Feed/ Extraction Meal ( Soyabean Meal, Cotton Seed meal, Corn meal, Castor Meal, Castor DOC, Soya DOC, Cotton seed DOC, Rape seed meal ,Rice bran, Poultry feed etc	Crude Fat	IS 7874 part 1: 1975	0.1 % to 10 %
53	CHEMICAL- ANIMAL FOOD & FEEDS	Animal Feed/ Extraction Meal ( Soyabean Meal, Cotton Seed meal, Corn meal, Castor Meal, Castor DOC, Soya DOC, Cotton seed DOC, Rape seed meal ,Rice bran, Poultry Feed etc	Crude Fiber	IS 7874 (Part 1) (RA: 2014): 1975	0.1 % to 50 %
54	CHEMICAL- ANIMAL FOOD & FEEDS	Animal Feed/ Extraction Meal ( Soyabean Meal, Cotton Seed meal, Corn meal, Castor Meal, Castor DOC, Soya DOC, Cotton seed DOC, Rape seed meal ,Rice bran, Poultry feed etc.	Moisture	IS 7874 (Part 1) (RA: 2014): 1975	1 % to 20 %



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55	CHEMICAL- ANIMAL FOOD & FEEDS	Animal Feed/ Extraction Meal ( Soyabean Meal, Cotton Seed meal, Corn meal, Castor Meal, Castor DOC, Soya DOC, Cotton seed DOC, Rape seed meal ,Rice bran,Poultry Feed etc	Ash	IS 7874 (Part 1) (RA: 2014): 1975	0.01 % to 10 %
56	CHEMICAL- ANIMAL FOOD & FEEDS	Soyabean Meal, Soya DOC	Urease Activity	ISO 5506: 1988	0.01 mg N/gm/min @ 30°C to 0.5 mg N/gm/min @ 30°C
57	CHEMICAL- DRUGS & PHARMACEUTICALS	Atenelol	Identification by IR	IP 2018 (2.4.6/page:178,1281, 1282): 2018	Qualitative(Complies)
58	CHEMICAL- DRUGS & PHARMACEUTICALS	Cefixime Tablet	Assay by HPLC	IP 2.4.14 Page 196,1525,1526: 2018	90 % to 110 %
59	CHEMICAL- DRUGS & PHARMACEUTICALS	Cough Syrup ( Expectorent)	pH	IP 2.4.24 Page 215: 2018	2 to 9
60	CHEMICAL- DRUGS & PHARMACEUTICALS	Paracetamol	Assay by UV	IP 2.4.7 Page 183,2854: 2018	90 % to 110 %
61	CHEMICAL- DRUGS & PHARMACEUTICALS	Paracetamol	Identification by IR	IP 2.4.6 Page 183,2854: 2018	Qualitative(Complies)
62	CHEMICAL- DRUGS & PHARMACEUTICALS	Paracetamol	Loss on Drying	IP 2.4.19 Page 208, 2853: 2018	0.06 % to 0.5 %
63	CHEMICAL- DRUGS & PHARMACEUTICALS	Paracetamol	Sulphated Ash	IP 2.3.18 Page 140, 2853,2854: 2018	0.02 % to 0.5 %
64	CHEMICAL- DRUGS & PHARMACEUTICALS	Ranitidine HCL	Assay by HPLC	IP 2.4.14 Page 196,3094: 2018	90 % to 110 %





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<b>Permanent Facility</b>					
65	CHEMICAL- DRUGS & PHARMACEUTICALS	Ranitidine HCl	Identification by IR	IP 2.4.6 page:178,3094: 2018	Qualitative(Complies)
66	CHEMICAL- DRUGS & PHARMACEUTICALS	Ranitidine HCL	Sulphated Ash	IP 2.3.18 Page 140,3094: 2018	0.02 % to 0.5 %
67	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Besan	Acid insoluble Ash	IS 2400 (RA 2015): 1976	0.01 % to 5 %
68	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Besan	Moisture	IS 2400 (RA:2015): 1976	0.01 % to 20 %
69	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Besan	Total ash	IS 2400 (RA:2015): 1976	0.01 % to 10 %
70	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuit	Acid Insoluble Ash/Sand Silica	IS 1011 (RA :2013): 2002	0.01 % to 5 %
71	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuit	Moisture	IS 1011 (RA:2013): 2002	0.01 % to 20 %
72	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Colour by Lovibond Tintometer(Y & R)	IS 548 (Part 1) (RA: 2015): 1964	0.1 Yellow & Red unit to 70 Yellow & Red unit



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73	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Insoluble Impurities	IS 548 (Part 1) (RA: 2015): 1964	0.01 % to 0.1 %
74	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Iodine Value	IS 548 (Part 1) (RA: 2015): 1964	1 gm l/ 100 gm to 10 gm l/ 100 gm
75	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Iodine Value	IS 548 (Part 1) (RA: 2015): 1964	10 gm l/ 100 gm to 120 gm l/ 100 gm



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<b>Permanent Facility</b>					
76	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Moisture & Volatile Matter	IS 548 (Part 1) (RA: 2015): 1964	0.01 % to 1 %
77	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Peroxide Value	IS 548 (Part 1) (RA: 2015): 1964	0.1 meq/1000 gm to 10 meq/1000 gm
78	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA),Hydrogen ated Castor Oil (HCO) Flakes, Coconut Oil etc	Refractive Index	IS 548 (Part 1)(RA: 2015): 1964	1.4 RI Unit to 1.5 RI Unit



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79	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Castor oil, Palmolein Oil, Soyabean oil, Ground Nut oil, Cotton seed oil, Sesame oil, Sunflower oil, 12 Hydroxy stearic acid(12HSA), Hydrogenated Castor Oil (HCO) Flakes, Coconut Oil etc	Specific Gravity	IS 548 (Part 1) (RA: 2015): 1964	0.5 to 1.0
80	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Broken (< 3/4 basis)	IS 4333 P I (RA:2012): 1996	0.01 % to 20 %
81	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Damaged /Slight Damage	IS 4333 P I (RA:2012): 1996	0.01 % to 20 %
82	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Discolored	IS 4333 P I (RA:2012): 1996	0.01 % to 20 %
83	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Foreign matter or Impurity or Admixture or Extraneous matter	IS 4333 P I (RA:2012): 1996	0.01 % to 20 %
84	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Insect Damage/Insect eaten/Insect bitten/worm bitten, Weevilled grains/Weevilled/Weevil hole	IS 4333 P I (RA:2012): 1996	0.01 % to 20 %
85	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Moisture	IS 4333 P II (RA :2012): 2002	0.1 % to 20 %



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86	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Other Edible Grains / Other Food grain	IS 4333 P I (RA: 2012): 1996	0.01 % to 20 %
87	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains (cereals and pulses)	Shrivilled & Immatured	IS 4333 P I (RA: 2012): 1996	0.01 % to 20 %
88	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ghee	Refractive Index	IS 3508 (RA: 2018): 1966	1.4 to 1.5
89	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ghee	RM Value	IS 3508 (RA: 2018): 1966	1 to 80
90	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ghee	Slip Melting point	IS 3508 (RA: 2018): 1966	10 ° to 50 °
91	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Acid Insoluble ash	IS 1009 (RA:2015): 1979	0.01 % to 5 %
92	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Moisture	IS 1009 (RA:2015): 1979	0.01 % to 20 %
93	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Total ash	IS 1009 (RA:2015): 1979	0.01 % to 10 %
94	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Poultry Feed	Acid Insoluble Ash/Sand Silica	IS : 7874 (Part 1) (RA:2014): 1975	0.01 % to 3.0 %



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95	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Poultry Feed	Ash	IS : 7874 (Part 1) (RA:2014): 1975	0.01 % to 10 %
96	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Poultry Feed	Crude Fat	IS : 7874 (Part 1) (RA:2014): 1975	0.1 % to 10 %
97	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Poultry Feed	Crude Protein (N x 6.25)	ISO 5983-2: 2009	0.1 % to 60 %
98	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Poultry feed	Moisture	IS : 7874 (Part 1) (RA: 2014): 1975	1.0 % to 20 %
99	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to eat food	Acid Insoluble Ash	IS 12569 (RA: 2015): 1989	0.01 % to 5 %
100	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to Eat food	Fat	IS 12569 (RA: 2015): 1989	0.1 % to 60 %
101	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to eat food	Moisture	IS 12569 (RA: 2015): 1989	0.01 % to 10 %
102	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to eat food	Peroxide Value	IS 12569 (RA: 2015): 1989	0.1 meq /1000 gm to 20 meq /1000 gm
103	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Average length	ISO 7301: 2011	4 mm to 7 mm



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104	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Broken (2/3 basis)	NARL-TP-CH-002 Issue No : 1.0 May 15: 2017	0.01 % to 20 %
105	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Broken (3/4 basis)	ISO 7301: 2011	0.01 % to 20 %
106	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Chalky	ISO 7301: 2011	0.01 % to 20 %
107	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Damage	ISO 7301: 2011	0.01 % to 20 %
108	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Discolored	ISO 7301: 2011	0.01 % to 20 %
109	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Rice	Red Grains	ISO 7301: 2011	0.01 % to 20 %
110	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Alkalinity as Na <sub>2</sub> CO <sub>3</sub>	IS 7224 (RA: 2016): 2006	0.01 % to 0.2 %
111	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Iodine	IS 7224 (RA: 2016): 2006	0.1 ppm to 100 ppm
112	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Matter insoluble in water	IS 7224 (RA: 2016): 2006	0.01 % to 5 %



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<b>Permanent Facility</b>					
113	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Matter soluble in water other than NaCl	IS 7224 (RA: 2016): 2006	0.01 % to 50 %
114	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Moisture	IS 7224 (RA: 2016): 2006	0.01 % to 5 %
115	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Potassium Ferro Cyanide	IS 7224 (RA: 2016): 2006	Qualitative(Present/Absent)
116	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Sulphate (as SO <sub>4</sub> )	IS 7224 (RA: 2016): 2006	0.05 % to 2 %
117	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Salt	Total Chloride (as NaCl)	IS 7224 (RA: 2016): 2006	75 % to 100 %
118	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Oil, Castor oil, Groundnut oil, Cottonseed oil	Adulteration Tests Boudoin Test Mineral Oil Test Bellier Turbidity Test Hexabromide Test Castor oil Test	IS 548 (Part 2) (RA:2015): 1976	Qualitative(Present/Absent)
119	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed	Dark Colour seed	SOP(NARL-TP-CH-002) Issue No 1.0 May 15 : 2017	0.01 % to 20 %
120	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed	Other color seed	NARL-TP-CH-002 Issue No 1.0 May 15: 2017	0.01 % to 20 %





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<b>Permanent Facility</b>					
121	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed	Rain Damage seed	NARL-TP-CH-002 Issue No 1.0 May 15: 2017	0.01 % to 20 %
122	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed	White Seed (100-Other Colour seed)	NARL-TP-CH-002 Issue No 1.0 May 15: 2017	70 % to 100 %
123	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed	Whitish Seed(100 - Dark Colour seed)	NARL-TP-CH-002 Issue No 1.0 May 15: 2017	70 % to 100 %
124	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed, Ground nut, Mustard seed, Soyabean, Sunflower seed, Cotton Seed, Safflower , Castor Seed etc	Damaged	IS 3579 (RA: 2015): 1966	0.01 % to 20 %
125	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed, Ground nut, Mustard seed, Soyabean, Sunflower seed, Cotton Seed, Safflower , Castor Seed etc	Foreign matter or Impurity or Admixture or Extraneous matter	IS 3579 (RA: 2015): 1966	0.01 % to 20 %
126	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed, Ground nut, Mustard seed, Soyabean, Sunflower seed, Cotton Seed, Safflower , Castor Seed etc	Moisture	IS 3579 (RA: 2015): 1966	0.1 % to 20 %



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127	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed, Ground nut, Mustard seed, Soyabean, Sunflower seed, Cotton Seed, Safflower , Castor Seed etc	Oil Content	IS 3579 (RA: 2015): 1966	0.5 % to 60 %
128	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sesame Seed, Ground nut, Mustard seed, Soyabean, Sunflower seed, Cotton Seed, Safflower , Castor Seed etc	Weevilled Seed/Weevilled Damage	IS 3579 (RA: 2015): 1966	0.01 % to 20 %
129	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Skimmed Milk Powder , Whole milk powder	Ash	IS 13334 P I: 2014	0.1 % to 10 %
130	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Skimmed Milk Powder , Whole milk powder	Milk Fat	ISO 1736: 2008	1 % to 50 %
131	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Skimmed Milk Powder , Whole milk powder	Moisture	IS 11623 (RA: 2018): 2008	0.1 % to 10 %
132	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Skimmed Milk Powder , Whole milk powder	Protein(N x 6.38)	ISO 8968 P I: 2014	10 % to 50 %
133	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Suji/Rava	Acid Insoluble ash	IS 1010(RA :2015): 1968	0.01 % to 5 %
134	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Suji/Rava	Moisture	IS 1010(RA :2015): 1968	0.01 % to 20 %



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135	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Suji/Rava	Total Ash	IS 1010(RA :2015): 1968	0.01 % to 10 %
136	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Acid Insoluble Ash	IS 13857 (RA:2014): 1993	0.01 % to 5 %
137	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Alkalinity of water soluble ash	ISO 1578 (RA: 2014): 1975	0.1 % to 20 %
138	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	crude fiber	IS 10226 P I (RA:2015): 1982	1 % to 30 %
139	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Moisture	IS 13853 (RA:2014): 1994	0.1 % to 20 %
140	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Total Ash	IS 13854 (RA:2014): 1994	0.1 % to 20 %
141	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Water Extract	IS 13862 (RA:2014): 1999	10 % to 80 %
142	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Water soluble ash	IS 13855 (RA:2014): 1993	10 % to 80 %



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<b>Permanent Facility</b>					
143	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric Power, Turmeric Fingers, Whole Chilli, Chilli Powder, Cumin seed, Coriander seed, Fenugreek seed, Dill seed, Cloves, Ginger powder, Fennel seed, Pepper, Cardemom, Cinnamone, Nutmeg, Curry Powder, Cumin Powder, Coriander Powder etc	Moisture	IS 1797 : 2017	0.8 % to 15 %
144	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric Power, Turmeric Fingers, Whole Chilli, Chilli Powder, Cumin seed, Coriander seed, Fenugreek seed, Dill seed, Cloves, Ginger powder, Fennel seed, Pepper, Cardemom, Cinnamone, Nutmeg, Curry Powder, Cumin Powder, Coriander Powder etc	Acid Insoluble Ash	IS 1797: 2017	0.1 % to 2 %



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<b>Permanent Facility</b>					
145	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric Power, Turmeric Fingers, Whole Chilli, Chilli Powder ,Cumin seed, Coriander seed, Fenugreek seed, Dill seed, Cloves, Ginger powder, Fennel seed, Pepper , Cardemom, Cinnamone, Nutmeg, Curry Powder, Cumin Powder, Coriander Powder etc	Extraneous Matter or Foreign matter or Impurity	IS 1797: 2017	0.1 % to 100 %
146	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Turmeric Power, Turmeric Fingers, Whole Chilli, Chilli Powder ,Cumin seed, Coriander seed, Fenugreek seed, Dill seed, Cloves, Ginger powder, Fennel seed, Pepper , Cardemom, Cinnamone, Nutmeg, Curry Powder, Cumin Powder, Coriander Powder etc	Total Ash	IS 1797: 2017	0.1 % to 1 %
147	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat flour/Paushtik Wheat Atta	Acid Insoluble ash	IS 1155(RA :2015): 1968	0.01 % to 5 %
148	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat flour/Paushtik Wheat Atta	Crude fibre	IS 1155(RA: 2015): 1968	1 % to 5 %



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<b>Permanent Facility</b>					
149	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat flour/Paushtik Wheat Atta	Gluten	IS 1155(RA: 2015): 1968	2 % to 50 %
150	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat flour/Paushtik Wheat Atta	Moisture	IS 1155(RA: 2015): 1968	0.01 % to 20 %
151	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat flour/Paushtik Wheat Atta	Total ash	IS 1155(RA: 2015): 1968	0.01 % to 10 %
152	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	White Sugar	Moisture	ICUMSA GS2 1/ 3 -15: 2007	0.001 % to 1 %
153	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Edible Oils & Fats	Nickel as Ni	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	1 mg/kg to 10 mg/kg
154	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Antimony as Sb	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.5 mg/kg to 5 mg/kg
155	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Arsenic As	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.03 mg/kg to 2 mg/kg
156	CHEMICAL- RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Cadmium as Cd	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.3 mg/kg to 1 mg/kg



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157	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Calcium as Ca	SOP(NARL-TP-CH-021), Issue No 1.0 Issue Date February 9: 2018	51 mg/kg to 20000 mg/kg
158	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Chromium as Cr	SOP(NARL-TP-CH-021) Issue NO 1.0 Issue Date February 9: 2018	1.0 mg/kg <hr /> to 5.0 mg/kg
159	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Copper as Cu	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	1 mg/kg to 10 mg/kg
160	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Lead as Pb	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.5 mg/kg to 2 mg/kg
161	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Magnesium as Mg	SOP(NARL-TP-CH-021) Issue NO 1.0 Issue Date February 9: 2018	5 mg/kg to 20000 mg/kg
162	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Mercury as Hg	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.1 mg/kg to 2 mg/kg
163	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Selenium as Se	SOP(NAR:-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	50 mg/kg to 20000 mg/kg



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164	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Infant Milk Substitutes , Infant Milk Food, Milk Powder	Zinc as Zn	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	1 mg/kg to 1000 mg/kg
165	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Ready to Eat Food (Noodles, Tea, Sugar Snacks)	Arsenic as As	SOP(NARL-TP-CH-021) Issue NO 1.0 Issue Date February 9: 2018	0.05 mg/kg to 2 mg/kg
166	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Ready to Eat Food (Noodles, Tea, Sugar Snacks)	Cadmium as Cd	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.3 mg/kg to 2 mg/kg
167	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Ready to Eat Food (Noodles, Tea, Sugar Snacks)	Chromium as Cr	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	1 mg/kg to 10 mg/kg
168	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Ready to Eat Food (Noodles, Tea, Sugar Snacks)	Lead as Pb	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.5 mg/kg to 2 mg/kg
169	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Ready to Eat Food (Noodles, Tea, Sugar Snacks)	Mercury as Hg	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.1 mg/kg to 2 mg/kg
170	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments (Turmeric, chilli, cumin, coriander )- Powder and whole	Antimony as Sb	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.5 mg/kg to 5 mg/kg





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171	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Arsenic as As	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.05 mg/kg to 5 mg/kg
172	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Cadmium as Cd	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.3 mg/kg to 2 mg/kg
173	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Calcium as Ca	SOP(NARL-TP-CH-021) Issue NO 1.0 Issue Date February 9: 2018	51 mg/kg to 20000 mg/kg
174	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Chromium as Cr	SOP(NARL-TP-CH-021) Issue NO 1.0 Issue Date February 9: 2018	1 mg/kg to 10 mg/kg
175	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Copper as Cu	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	1 mg/kg to 10 mg/kg
176	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Lead as Pb	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.5 mg/kg to 2 mg/kg
177	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Magnesium as Mg	SOP(NARL-TP-CH-021) Issue NO 1.0 Issue Date February 9: 2018	5 mg/kg to 2000 mg/kg



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
178	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Mercury as Hg	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	0.1 mg/kg to 2.0 mg/kg
179	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Selenium as Se	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	50 mg/kg to 20000 mg/kg
180	CHEMICAL-RESIDUES IN FOOD PRODUCTS	Spices & Condiments(Turmeric, chilli, cumin, coriander )- Powder and whole	Zinc as Zn	SOP(NARL-TP-CH-021) Issue No 1.0 Issue Date February 9: 2018	1 mg/kg to 1000 mg/kg
181	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Aluminium as Al	NARL-TP-CH-011 Issue No 1.0 Issue Date October 9: 2017	10 µg/l to 200 µg/l
182	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Copper as Cu	NARL-TP-CH-011 Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
183	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Antimony	SOP(NARL-TP-CH-011) Issue NO 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
184	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Arsenic as As	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
185	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Barium as Ba	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
186	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Boron as B	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	50 µg/l to 5000 µg/l
187	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Cadmium as Cd	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	1 µg/l to 100 µg/l
188	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Chromium as Cr	SOP(NARL-TP-CH-011) Issue No 1.0 Issue No OOctober 9: 2017	5 µg/l to 200 µg/l
189	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Iron as Fe	NARL-TP-CH-011 Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
190	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Lead as Pb	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
191	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Manganese as Mn	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
192	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Mercury	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
193	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Molybdenum as Mo	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
194	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Nickel as Ni	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
195	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Selenium as Se	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
196	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Silver as Ag	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
197	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Sodium as Na	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	15 µg/l to 500 µg/l
198	CHEMICAL-RESIDUES IN WATER	Drinking Water , Packaged Drinking Water	Zinc as Zn	SOP(NARL-TP-CH-011) Issue No 1.0 Issue Date October 9: 2017	5 µg/l to 200 µg/l
199	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	a HCH	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l



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<b>Permanent Facility</b>					
200	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Aldrin	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
201	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Bromodichloromethane	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	50 µg/l to 500 µg/l
202	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Butachlor	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
203	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Chloroform	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	50 µg/l to 500 µg/l
204	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Delta HCH	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
205	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Dibromochloromethane	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date Decemeber 2: 2017	50 µg/l to 500 µg/l
206	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Dieldrin	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
207	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Endosulfan Sulphate	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
208	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Endosulfan I	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l
209	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Endosulfan II	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l
210	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Ethion	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
211	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Lindane (? HCH)	SOP (NARL-TP-CH-012) Issue NO 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
212	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	o,p DDD	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
213	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	o,p DDE	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l



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<b>Permanent Facility</b>					
214	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	o,p DDT	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
215	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	P,p DDD	SOP (NARL-TP-CH-012) Issue NO 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
216	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	P,p DDE	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
217	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	P,p DDT	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
218	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	β HCH	SOP (NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
219	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water	Trihalomethane(Bromof orm)	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	50 µg/l to 500 µg/l
220	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral	Paraoxon Methyl	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
221	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Alachlor	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
222	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Atrazine	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
223	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Chlorpyrifos	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
224	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Malaoxon	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
225	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral water	Malathion	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.01 µg/l to 1000 µg/l
226	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Methyl Parathion	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l
227	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Monocrotophos	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
228	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Phorate	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l
229	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Phorate Sulfon	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l
230	CHEMICAL-RESIDUES IN WATER	Packaged Drinking Water, Packaged Natural Mineral Water	Phorate Sulfoxide	SOP(NARL-TP-CH-012) Issue No 1.0 Issue Date December 2: 2017	0.025 µg/l to 1000 µg/l
231	CHEMICAL- WATER	Drinking Water	Ammonia as Total Ammonia-N/ ammonical Nitrogen	IS 3025 P 34 (RA: 2014): 1988	0.1 mg/l to 100 mg/l
232	CHEMICAL- WATER	Drinking Water	Anionic Detergents as MBAS	IS 13428 (RA: 2014): 2005	0.1 mg/l to 50 mg/l
233	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 P 40 (RA: 2014): 1991	10 mg/l to 500 mg/l
234	CHEMICAL- WATER	Drinking Water	Chloramine as Cl <sub>2</sub>	IS 3025 P 26 (RA: 2014): 1986	1 mg/l to 50 mg/l
235	CHEMICAL- WATER	Drinking Water	Chloride as Cl	IS 3025 P 32 (RA: 2014): 1988	10 mg/l to 500 mg/l
236	CHEMICAL- WATER	Drinking water	Colour	IS 3025 P 4 (RA: 2017): 1983	1 Hz to 50 Hz
237	CHEMICAL- WATER	Drinking Water	Cyanide as CN	IS 3025 P 27 (RA: 2014): 1994	0.04 mg/l to 10 mg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
238	CHEMICAL- WATER	Drinking Water	Fluoride as F	IS 3025 P 60 (RA: 2013): 2013	0.2 mg/l to 5 mg/l
239	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 P 26 (RA: 2014): 1986	0.1 mg/l to 10 mg/l
240	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 P 46 (RA: 2014): 1994	5 mg/l to 500 mg/l
241	CHEMICAL- WATER	Drinking Water	Mineral Oil (Oil & Grease)	IS 3025 P 39 (RA: 2014): 1991	0.2 mg/l to 100 mg/l
242	CHEMICAL- WATER	Drinking Water	Nitrate as NO <sub>3</sub>	IS 3025 P 34 (RA: 2014): 1988	2 mg/l to 100 mg/l
243	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 P 5: 2018	Qualitative(Agreeable/ Not Agreeable)
244	CHEMICAL- WATER	Drinking Water	pH	IS 3025 P 11 (RA: 2017): 1983	2 to 9
245	CHEMICAL- WATER	Drinking Water	Phenolic Compound	IS 3025 P 43 (RA: 2014): 1992	0.001 mg/l to 10 mg/l
246	CHEMICAL- WATER	Drinking Water	Sulfate as SO <sub>4</sub>	IS 3025 P 24 (RA: 2014): 1986	10 mg/l to 500 mg/l
247	CHEMICAL- WATER	Drinking Water	Sulfide	IS 3025 P 29 (RA: 2014): 1986	0.05 mg/l to 50 mg/l
248	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 P 7 (RA: 2017): 1984	Qualitative(Agreeable/ Not Agreeable)
249	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 P 23 (RA: 2014): 1986	10 mg/l to 500 mg/l
250	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 P 16 (RA: 2017): 1984	10 mg/l to 1000 mg/l



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<b>Permanent Facility</b>					
251	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO <sub>3</sub>	IS 3025 P 21 (RA: 2014): 2009	10 mg/l to 500 mg/l
252	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 P 10 (RA: 2017): 1984	1 NTU to 100 NTU
253	CHEMICAL- WATER	Packaged Drinking water	Alkalinity as HCO <sub>3</sub>	IS 3025 P 23 (RA: 2014): 1986	10 mg/l to 500 mg/l
254	CHEMICAL- WATER	Packaged Drinking water	Anionic Surface active agent(as MBAS)	IS 13428 Annx K (RA: 2014): 2005	0.1 mg/l to 50 mg/l
255	CHEMICAL- WATER	Packaged Drinking water	Borate as B	IS 13428 Annx H (RA: 2014): 2005	0.005 mg/l to 0.2 mg/l
256	CHEMICAL- WATER	Packaged Drinking water	Bromate as BrO <sub>3</sub>	ISO 15061: 2001	0.008 mg/l to 0.05 mg/l
257	CHEMICAL- WATER	Packaged Drinking water	Calcium as Ca	IS 3025 P 40 (RA: 2014): 1991	10 mg/l to 500 mg/l
258	CHEMICAL- WATER	Packaged Drinking water	Chloride as Cl	IS 3025 P 32 (RA: 2014): 1988	10 mg/l to 500 mg/l
259	CHEMICAL- WATER	Packaged Drinking Water	Colour	IS 3025 P 4 (RA: 2017): 1983	1 Hz to 50 Hz
260	CHEMICAL- WATER	Packaged Drinking water	Cyanide as CN	IS 3025 P 27 (RA: 2014): 1986	0.04 mg/l to 10 mg/l
261	CHEMICAL- WATER	Packaged Drinking water	Fluoride	IS 3025 P 60 (RA: 2013): 2008	0.2 mg/l to 5 mg/l
262	CHEMICAL- WATER	Packaged Drinking water	Free Residual Chlorine	IS 3025 P 26 (RA: 2014): 1986	0.1 mg/l to 10 mg/l
263	CHEMICAL- WATER	Packaged Drinking water	Magnesium as Mg	IS 3025 P 46 (RA: 2014): 1994	5 mg/l to 500 mg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
264	CHEMICAL- WATER	Packaged Drinking water	Mineral Oil	IS 3025 P 39 (RA: 2014): 1991	0.2 mg/l to 100 mg/l
265	CHEMICAL- WATER	Packaged Drinking water	Nitrate as NO <sub>3</sub>	IS 3025 P 34 (RA: 2014): 1988	2 mg/l to 100 mg/l
266	CHEMICAL- WATER	Packaged Drinking water	Nitrite as NO <sub>2</sub>	IS 3025 P 34 (RA: 2014): 1988	0.01 mg/l to 10 mg/l
267	CHEMICAL- WATER	Packaged Drinking Water	Odour	IS 3025 P 5: 2018	Qualitative(Agreeable/ Not Agreeable)
268	CHEMICAL- WATER	Packaged Drinking water	pH	IS 3025 P 11 (RA: 2017): 1983	2 to 9
269	CHEMICAL- WATER	Packaged Drinking water	Phenolic compound	IS 3025 P 43 (RA: 2014): 1992	0.001 mg/l to 10 mg/l
270	CHEMICAL- WATER	Packaged Drinking water	Sulfate as SO <sub>4</sub>	IS 3025 P 24 (RA: 2014): 1986	10 mg/l to 500 mg/l
271	CHEMICAL- WATER	Packaged Drinking water	Sulfide as H <sub>2</sub> S	IS 3025 P 29 (RA: 2014): 1986	0.04 mg/l to 50 mg/l
272	CHEMICAL- WATER	Packaged Drinking water	Taste	IS 3025 P 7 (RA: 2017): 1984	Qualitative(Agreeable/ Not Agreeable)
273	CHEMICAL- WATER	Packaged Drinking water	Total Dissolved Solids	IS 3025 P 16 (RA: 2017): 1984	10 mg/l to 1000 mg/l
274	CHEMICAL- WATER	Packaged Drinking water	Turbidity	IS 3025 P 10 (RA: 2017): 1984	1 NTU to 100 NTU
275	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Ammonia as Total Ammonia-N/ ammonical Nitrogen	IS 3025 P 34 (RA: 2014): 1991	0.1 mg/l to 100 mg/l



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
276	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Calcium as Ca	IS 3025 P 40 (RA: 2014): 1991	10 mg/l to 10000 mg/l
277	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Chemical Oxygen Demand(COD)	IS 3025 P 58 (RA: 2017): 2006	10 mg/l to 1000 mg/l
278	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Colour	IS 3025 P 4 (RA: 2017): 1983	1 Hz to 50 Hz
279	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Conductivity	APHA 23rd Edn 2510B: 2017	1 µS/cm to 10 µS/cm
280	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Fluoride	IS 3025 P 60 (RA: 2013): 2008	0.2 mg/l to 5 mg/l
281	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Magnesium as Mg	IS 3025 P 46 (RA: 2014): 1994	5 mg/l to 500 mg/l
282	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Nitrate as NO <sub>3</sub>	IS 3025 P 34 (RA: 2014): 1988	2 mg/l to 10000 mg/l



# National Accreditation Board for Testing and Calibration Laboratories

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## SCOPE OF ACCREDITATION

Laboratory Name NAVJYOTI ANALYTICS AND RESEARCH LABORATORY (UNIT OF NAVJYOTI COMMODITY MANAGEMENT SERVICES LIMITED), D- 601, SIGNATURE-2, SANAND ROAD, SARKHEJ, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7337 Page No. : 38 / 39

Validity 06/06/2018 to 05/06/2020 Last Amended on 09/07/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
283	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	pH	IS 3025 P 11 (RA: 2017): 1986	2 to 9
284	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Residue Free Chlorine	IS 3025 P 26 (RA: 2014): 1986	0.1 mg/l to 0.5 mg/l
285	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Sulfate as SO <sub>4</sub>	Is 3025 P24 (RA: 2014): 1986	10 mg/l to 10000 mg/l
286	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 P 23 (RA: 2014): 1986	10 mg/l to 500 mg/l
287	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Total Dissolved Solids	IS 3025 P 16 (RA: 2017): 1984	10 mg/l to 100 mg/l
288	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Total Hardness as CaCO <sub>3</sub>	IS 3025 P 21 (RA: 2014): 2009	10 mg/l to 10000 mg/l
289	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Total Solids	IS 3025 P 15 (RA: 2014): 1984	10 mg/l to 100000 mg/l



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<b>Permanent Facility</b>					
290	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Total Suspended Solids	APHA 23rd Edn 2540D: 2017	10 mg/l to 1000 mg/l
291	CHEMICAL- WATER	Surface Water, Ground Water, Construction Water, Industrial Water, River Water	Turbidity	IS 3025 P 10 (RA: 2017): 1984	1 NTU to 100 NTU

'NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.'