

Laboratory	ITL Labs Private Limited, B-283, 284, Mangol Puri Industrial Area, Phase-1, Delhi		
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AT LABORATORY

I. AIR, GASES & ATMOSPHERE

1. Ambient air Monitoring	Suspended Particulate matter (SPM)	IS 5182 (Part 4): 1999 (RA 2005)	5 µg/m ³ to 1000 µg/m ³
	Oxides of nitrogen (NO _x)	IS 5182 (Part 6): 2006	6 µg/m ³ to 100 µg/m ³
	Sulphur Dioxide (SO ₂)	IS 5182(Part 2): 2001	5 µg/m ³ to 100 µg/m ³
	Carbon Monoxide (CO)	WI/ENV/07 (Electro-Chemical Method) Issue No.: 01 Issue Date: 01.04.2014	1.145 mg/m ³ to 572 mg/m ³
	Particulate matter (PM ₁₀)	IS 5182 (Part 23): 2006	5 µg/m ³ to 1000 µg/m ³
	Particulate matter (PM _{2.5})	WI/ENV/04 Issue No.: 01 Issue Date: 01.04.2014	5 µg/m ³ to 200 µg/m ³
	Ozone (O ₃)	IS 5182 (Part 9): 1974	10 µg/m ³ to 600 µg/m ³
	Lead (as Pb)	IS 5182 (Part 22): 2004	0.2 µg/m ³ to 20 µg/m ³
	Nickel (as Ni)	WI/ENV/08 Issue No.: 01 Issue Date: 01.04.2014	10 ng/m ³ to 50 ng/m ³
	Arsenic (as As)	WI/ENV/08 Issue No.: 01 Issue Date: 01.04.2014	5 ng/m ³ to 50 ng/m ³

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	Ambient air Monitoring	Ammonia (as NH ₃)	Method No. 401, Method of Air sampling & Analysis (3 rd Edition)	20 µg/m ³ to 700 µg/m ³
		Benzene	IS 5182 (Part 11): 2006	3.0 µg/m ³ to 100 µg/m ³
		Benzo(a) pyrene (BaP) Particulate phase only	IS 5182 (Part 12): 2004	0.5 ng/m ³ to 50 ng/m ³
2.	Stack Gas Emission	Particulate matter (PM)	IS 11255 (Part 1): 1985 (RA2003)	5 mg/m ³ to 1000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2): 1985 (RA2003)	2 mg/m ³ to 5000 mg/Nm ³
		Nitrogen Oxide (NO _x)	IS 11255 (Part 7): 2005	10 mg/m ³ to 1000 mg/Nm ³
II. BUILDING MATERIALS				
1.	Cement & Pozzolanic Material (OPC & PPC)	Loss on Ignition	IS 4032: 1985 (RA 2009) & IS 172: 1967 (RA 2008)	0.1 % to 10 %
		SiO ₂		0.1 % to 50.0 %
		Fe ₂ O ₃		0.1 % to 5.0 %
		Al ₂ O ₃		0.1 % to 10 %
		CaO		0.1 % to 70 %
		MgO		0.1 % to 15 %
		SO ₃		0.1 % to 6 %
		Insoluble Residue		0.1 % to 40 %
		Na ₂ O		0.1 % to 5.0%
		K ₂ O		0.1 % to 5.0%
		Chloride	IS 403: 1985 (RA 2009)	0.005 % to 0.50 %

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2.	Concrete Admixture	pH	IS 910: 1999 (RA 2008)	1 to 14
		Dry Material Content		5 % to 50 %
		Ash Content		0.1 % to 20 %
		Density		1.000 to 1.500
		Chloride	IS 692: 1973 (RA 2008)	0.005 % to 2.5 %
III. METALS AND ALLOYS				
1.	Low Alloy Steel	Carbon	IS 228 (Part 1): 1987 (RA 2008)	0.02 % to 1.0 %
		Silicon	IS 228 (Part 8): 1989 (RA 2009)	0.01 % to 1.0 %
		Manganese	IS 228 (Part 2): 1987 (RA 2008)	0.01 % to 2.0 %
		Phosphorus	IS 228 (Part 3): 1987 (RA 2008)	0.005 % to 0.15 %
		Sulphur	IS 228 (Part 9): 1989 (RA 2009)	0.005 % to 0.35 %
		Nickel	IS 228 (Part 5): 1987 (RA 2009)	0.01% to 25.0 %
		Chromium	IS 228 (Part 6): 1987 (RA 2009)	0.01 % to 25.0%
		Molybdenum	IS 228 (Part 7): 1990 (RA 2009)	0.10 % to 3.0%
2.	Stainless Steel	Carbon	IS 228 (Part 1): 1987 (RA 2008)	0.02 % to 1.0 %
		Silicon	IS 228 (Part 8): 1989 (RA 2009)	0.01 % to 1.0 %
		Manganese	IS 228 (Part 2): 1987 (RA 2008)	0.01 % to 2.0 %
		Phosphorus	IS 228 (Part 3): 1987 (RA 2008)	0.005 % to 0.15 %

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	Stainless Steel	Sulphur	IS 228 (Part 9): 1989 (RA 2009)	0.005 % to 0.35 %
		Nickel	IS 228 (Part 5): 1987 (RA 2009)	0.01% to 25.0 %
		Chromium	IS 228 (Part 6): 1987 (RA 2009)	0.01 % to 25.0%
		Molybdenum	IS 228 (Part 7): 1990 (RA 2009)	0.10 % to 3.0%
IV. METALLIC COATINGS AND TREATMENT SOLUTIONS				
1.	Galvanized sheet/Wire	Mass of zinc coating	IS 6745: 1972 (RA 2010)	100 g/m ² to 800 g/m ²
V. COSMETICS & ESSENTIAL OILS				
1.	Hair Cream	Thermal Stability	IS 7679: 1978 (RA 2006)	Qualitative
		pH	IS 7679: 1978 (RA 2006)	1 to 12
		Total Fatty substances	IS 7679: 1978 (RA 2006)	1 % to 20 %
		Water Content	IS 7679: 1978 (RA 2006)	0.1% to 90 %
		Test for rancidity	IS 7679: 1978 (RA 2006)	Qualitative
2.	Pomades & Brilliantine	Melting point	IS 9339: 1988 (RA 1995) Appendix B2	30°C to 80°C
		Sulphated ash	IS 9339: 1988 (RA 1995) Appendix B3	0.1 % to 5 %
		Sulphur & sulphide	IS 9339: 1988 (RA 1995) Appendix B4	Qualitative
		Arsenic	IS 9339: 1988 (RA 1995) Appendix B5	Qualitative

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	Pomades & Brilliantine	Heavy metals (as Pb)	IS 9339: 1988 (RA 1995) Appendix B6	Qualitative
		Consistency	IS 9339: 1988 (RA 1995) Appendix B7	50 to 400
		Test for rancidity	IS 9339: 1988 (RA 1995) Appendix B8	Qualitative
3.	Hair Oil	Acid value	IS 7123: 1993 (RA 1998) Annexure A2	0.1 to 2
		Peroxide value	IS 7123: 1993 (RA 1998) Annexure A4	0.1Meq/1000 g to 1Meq/1000g
4.	Shampoo (Surfactant based)	Non volatile alcohol soluble matter	IS 7884: 2004 Annexure B	0.1 % to 15 %
		pH	IS 7884: 2004 Annexure C	1.0 to 12
		Foam Height for 2% solution	IS 7884: 2004 Annexure D	10 mm to 180 mm
5.	Powder Hair Dye	pH of 5% solution (m/m) in water	IS 10350: 1999 (RA 2004) Annexure A	1.0 to 12.0
		Total Active Matter (Dye content)	IS 10350: 1999 (RA 2004) Annexure B	1 % to 150 %
6.	Tooth Paste	Fineness Particles retained on 150 µ IS Sieve Particles retained on 75µ IS Sieve	IS 6356: 2001 (RA 2006) Annexure B	1 % to 20 %

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	Tooth Paste	pH	IS 6356: 2001 (RA 2006) Annexure C	1.0 to 12
		Heavy metals (as Pb)	IS 6356: 2001 (RA 2006) Annexure D	Qualitative
		Arsenic	IS 6356: 2001(RA 2006) Annexure E	Qualitative
		Foaming power	IS 6356: 2001 (RA 2006) Annexure F	10 mL to 200 mL
7.	Hair Remover	pH	IS 9636: 1988 (RA 2005) Appendix A2	1.0 to 13
		Calcium thioglycollate Calculated as Thioglycollic acid	IS 9636: 1988 (RA 2005) Appendix A3	1 % to 10 %
		Thermal stability	IS 9636: 1988 (RA 2005) Appendix A4	Qualitative
8.	Skin Cream	Thermal Stability	IS 6608: 2004 Annexure A	Qualitative
		pH	IS 6608: 2004 Annexure B	1 to 12
		Total fatty substance	IS 6608: 2004 Annexure C	1 % to 10 %
		Heavy Metal (as Pb)	IS 6608: 2004 Annexure E	Qualitative
		Arsenic (as As ₂ O ₃)	IS 6608: 2004 Annexure F	Qualitative

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9.	Tooth Powder	Fineness Particles retained on 150 μ IS Sieve Particles retained on 75μ IS Sieve	IS 5383: 2006 Annexure B	1 % to 10 %
		Moisture and volatile matter	IS 5383: 2006 Annexure C	0.5 % to 10 %
		pH of 50% aqueous suspension	IS 5383: 2006 Annexure D	1 to 12
		Foaming power	IS 5383: 2006 Annexure E	10 mL to 150 mL
		Heavy Metal (as Pb)	IS 5383: 2006 Annexure F	Qualitative
		Arsenic (as As ₂ O ₃)	IS 5383: 2006 Annexure G	Qualitative
10	Shaving Cream	Total fatty matter	IS 9740: 1981 (RA 2001) Annexure B2	0.1 % to 40 %
		Water content	IS 9740: 1981 (RA 2001) Annexure B3	0.1 % to 80 %
		Foaming power	IS 9740: 1981 (RA 2001) Annexure B3	10 mL to 200 mL
		Free caustic alkali	IS 9740: 1981 (RA 2001) Annexure B5	Qualitative
11.	Skin Powder/ Face Powder	Matter insoluble in boiling water	IS 3959: 2004 Annexure B	1 % to 95 %
		Fineness Residue on 75μ IS Sieve Residue on 150 μ IS Sieve	IS 3959: 2004 Annexure C	1 % to 10 %

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	Skin Powder/ Face Powder	Moisture & Volatile matter	IS 3959: 2004 Annexure D	0.1 % to 5 %
		pH of aqueous suspension	IS 3959: 2004 Annexure E	0.1 to 12
		Heavy metals (as Pb)	IS 3959: 2004 Annexure F	Qualitative
		Arsenic (as As ₂ O ₃)	IS 3959: 2004 Annexure G	Qualitative
VI. DISINFECTANTS				
1.	Disinfectant fluid Phenolic type	Stability after dilution	IS 1061: 1997 (RA 2005)	Qualitative
		Mercury compounds	IS 1061: 1997 (RA 2005)	Qualitative
		Stability on storage	IS 1061: 1997 (RA 2005)	Qualitative
VII. DRUGS & PHARMACEUTICALS				
1.	Albendazole Tablets	Identification	IP 2014 Page No. 1006	Qualitative
		Assay	IP 2014 Page No. 1006	80 % to 120 %
2.	Amlodipine Tablets	Identification	IP 2014 Page No. 1046	Qualitative
		Related Substances	IP 2014 Page No. 1047	Qualitative
		Dissolution	IP 2014 Page No. 1047	55 % to 110 %
		Assay	IP 2014 Page No. 1047	80 % to 120 %
3.	Amoxycillin Capsules	Identification	IP 2014 Page No. 1055	Qualitative
		Dissolution	IP 2014 Page No. 1055	55 % to 110 %
		Assay	IP 2014 Page No. 1056	80 % to 120 %

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4.	Amoxycillin Injection	Sodium chloride	IP 2014 Page No. 1054	0 to 2 %
		Assay	IP 2014 Page No. 1054	80 % to 120 %
5.	Amoxycillin Oral Suspension	Assay & Stability	IP 2014 Page No. 1057	80 % to 120 %
6.	Amoxycillin Trihydrate	Assay	IP 2014 Page No. 1055	80 % to 120 %
7.	Amoxycillin Dispersible Tablets	Assay	IP 2014 Page No. 1056 to 1057	80 % to 120 %
8.	Amoxycillin and Potassium Clavulanate oral suspension	Assay (Amoxycillin)	IP 2014 Page No. 1059	80 % to 120 %
9.	Amoxicillin and Potassium Clavulanate Tablets	Uniformity of content (Clavulanic acid)	IP 2014 Page No. 1060	70 % to 130 %
		Dissolution Amoxycillin Clavulanic acid	IP 2014 Page No. 1060	55 % to 110 % 55 % to 110 %
		Assay Amoxycillin Clavulanic acid	IP 2014 Page No. 1060	80 % to 120 % 80 % to 120 %
10.	Ascorbic Acid Tablets	Assay	IP 2014 Page No. 1087 BP 2014 Page No. III-149	80 % to 120 %

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11.	Aspirin Tablets	Salicylic acid	IP 2014 Page No. 1093 BP 2014 Page No. III-150	Qualitative
		Assay	IP 2014 Page No. 1093 BP 2014 Page No. III-150	80 % to 120 %
12.	Atenolol Tablets	Related substances	IP 2014 Page No. 1098	Qualitative
		Assay	IP 2014 Page No. 1098 BP 2014 Page No. III-155	80 % to 120 %
13.	Atorvastatin Tablets	Dissolution	IP 2014 Page No. 1101	55 % to 110 %
		Related substances	IP 2014 Page No. 1101	Qualitative
		Assay	IP 2014 Page No. 1101	80 % to 120 %
14.	Azithromycin	Identification	IP 2014 Page No. 1117	Qualitative
		Related substances	IP 2014 Page No. 1117	Qualitative
		Assay	IP 2014 Page No. 1118	80 % to 120 %
15.	Azithromycin oral suspension	Identification	IP 2014 Page No. 1120	Qualitative
		Related substances	IP 2014 Page No. 1120	Qualitative
		Assay	IP 2014 Page No. 1121	80 % to 120 %
16.	Azithromycin Tablets	Identification	IP 2014 Page No. 1121	Qualitative
		Related substances	IP 2014 Page No. 1121	Qualitative
		Dissolution	IP 2014 Page No. 1122	55 % to 110 %
		Assay	IP 2014 Page No. 112	80 % to 120 %

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17.	Compound Benzoic Acid Ointment	Assay	IP 2014 Page No. 1154 BP 2014 Page No. III-174	80 % to 120 %
18.	Bupivacaine Injection	Related substances	IP 2014 Page No. 1216	Qualitative
		Assay	IP 2014 Page No. 1216	80 % to 120 %
19.	Caffeine	Related Substances	IP 2014 Page No. 1237	Qualitative
		Assay	IP 2014 Page No. 1237 BP 2014 Page No. I-343	80 % to 120 %
20.	Calcium Lactate Tablets	Assay	IP 2014 Page No. 1256 BP 2014 Page No. III-238	80 % to 120 %
21.	Carbamazepine Tablets	Assay	IP 2014 Page No. 1268 BP 2014 Page No. III-240	80 % to 120 %
22.	Cefixime Tablets	Identification	IP 2014 Page No. 1307	Qualitative
		Dissolution	IP 2014 Page No. 1307 USP 37 Page No. 2205	55 % to 110 %
		Assay	IP 2014 Page No. 1308 USP 37 Page No. 2205	80 % to 120 %
23.	Ceftriaxone injection	Assay	IP 2014 Page No. 1325	80 % to 120 %
24.	Cephalexin Capsules	Dissolution	IP 2014 Page No. 1334	60 % to 100 %
25.	Ciprofloxacin Eye Drops	Assay	IP 2014 Page No. 1403	80 % to 120 %

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26.	Clobetasol Cream	Assay	BP 2014 Page No. III-324	80 % to 120 %
27.	Absorbent cotton	Acidity or alkalinity	IP 2014 Page No. 1466	Qualitative
		Surface active substances	IP 2014 Page No. 1466	Qualitative
		Absorbency	IP 2014 Page No. 1466	1second to 10 seconds
		Foreign fibers	IP 2014 Page No. 1466	Qualitative
		Fluorescence	IP 2014 Page No. 1466	Qualitative
		Colouring matter	IP 2014 Page No. 1466	Qualitative
		Ether soluble substances	IP 2014 Page No. 1466	0 to 0.5 %
		Water soluble substances	IP 2014 Page No. 1466	0 to 0.5%
		Neps	IP 2014 Page No. 1467	Qualitative
28.	Cyanocobalamin Injection	Assay	IP 2014 Page No. 1476 USP 37 Page No. 2479	80 % to 120 %
29.	Dextrose Injection	5-hydroxymethylfurfural & Related substances	IP 2014 Page No. 1543 USP 37 Page No. 2573	Qualitative
		Assay	IP 2014 Page No. 1543 USP 37 Page No. 2573	80 % to 120 %
30.	Diclofenac Sodium Tablets	Related substances	IP 2014 Page No. 1552 to 1553	Qualitative
		Assay	IP 2014 Page No. 1553	80 % to 120 %
31.	Enalapril Maleate	Assay	IP 2014 Page No. 1275 BP 2014 Page No. I-826	80 % to 120 %

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32.	Folic Acid	Assay	IP 2014 Page No. 1822	80 % to120 %
33.	Frusemide Tablets	Dissolution	IP 2014 Page No. 1835 BP 2014 Page No. III-580	55 % to110 %
		Related substances	IP 2014 Page No. 1835	Qualitative
	Frusemide Tablets	Assay	IP 2014 Page No. 1835-36 BP 2014 Page No. III-581	80 % to120%
34.	Gentamicin Injection	Identification	IP 2014 Page No. 1859 BP 2014 Page No. III-588	Qualitative
		Composition of gentamicin sulphate	IP 2014 Page No. 1859 BP 2014 Page No. III-588	Qualitative
35.	Glibenclamide Tablets	Identification	IP 2014 Page No. 1861	Qualitative
		Uniformity of content	IP 2014 Page No. 1861	70 % to130 %
		Assay	IP 2014 Page No. 1861	80 % to120 %
36.	Glipizide Tablets	Assay	IP 2014 Page No. 1863 BP 2014 Page No. III-595	80 % to120 %
37.	Imipramine Tablets	Uniformity of content	IP 2014 Page No. 1955	70 % to130 %
		Assay	IP 2014 Page No. 1955 BP 2014 Page No. III-659	80 % to120 %
38.	Levofloxacin Hemihydrate	Identification	IP 2014 Page No. 2086	Qualitative
		D-ofloxacin	IP 2014 Page No. 2086	Qualitative
		Assay	IP 2014 Page No. 2086	80 % to120 %

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39.	Mannitol Injection	Assay	IP 2014 Page No. 2153 BP 2014 Page No. III-755	80 % to120 %
40.	Metformin tablets	Dissolution	IP 2014 Page No. 2187 BP 2014 Page No. III-789	55 % to110 %
		Assay	IP 2014 Page No. 2187 BP 2014 Page No. III-789	80 % to120 %
41.	Metronidazole injection	Assay	IP 2014 Page No. 2218 BP 2014 Page No. III-810	80 % to120 %
42.	Metronidazole tablets	Dissolution	IP 2014 Page No. 2219 to 2220	70 % to110 %
		Assay	IP 2014 Page No. 2220	80 % to120 %
43.	Miconazole Nitrate	Assay	IP 2014 Page No. 2227	80 % to120 %
44.	Neostigmine Injection	3-Hydroxytrimethyl-fanilinium bromide	IP 2014 Page No. 2321	Qualitative
		Assay	IP 2014 Page No. 2321	80 % to120 %
45.	Nifedipine Capsules	Uniformity of content	IP 2014 Page No. 2338	70 % to130 %
		Assay	IP 2014 Page No. 2338	80 % to120 %
46.	Norfloxacin	Related Substances	IP 2014 Page No. 2351 to 2352	Qualitative
		Assay	IP 2014 Page No. 2352	80 % to 120 %
47.	Ofloxacin	Light absorption	IP 2014 Page No. 2367	Maximum 0.25
		Assay	IP 2014 Page No. 2368	80 % to120%

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48.	Omeprazole capsules	Identification	IP 2014 Page No. 2374	Qualitative
		Dissolution	IP 2014 Page No. 2374	5 % to 110 % for acidic medium 55 % to 110 % for buffer medium
		Assay	IP 2014 Page No. 2374	80 % to 120 %
49.	Ondansetron injection	Identification	IP 2014 Page No. 2377	Qualitative
		Related substances	IP 2014 Page No. 2377	Qualitative
		Assay	IP 2014 Page No. 2377	80 % to 120 %
50.	Oxytocin injection	Identification	IP 2014 Page No. 2410	Qualitative
		Assay	IP 2014 Page No. 2410 to 2411	80 % to 120 %
51.	Paracetamol	Related Substances	IP 2014 Page No. 2429	Qualitative
		Assay	IP 2014 Page No. 2430	80 % to 120 %
52.	Paracetamol Suspension	Assay	IP 2014 Page No. 2431 to 2432	80 % to 120 %
53.	Paracetamol Syrup	Assay	IP 2014 Page No. 2433	80 % to 120 %
54.	Paracetamol Tablets	Dissolution	IP 2014 Page No. 2434 BP 2014 Page No. III-919	55 % to 110 %
		Assay	IP 2014 Page No. 2434 BP 2014 Page No. III-919	80 % to 120 %

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55.	Pyrazinamide Tablets	Related substances	IP 2014 Page No. 2598 BP 2014 Page No. III-1009	Qualitative
		Assay	IP 2014 Page No. 2598 BP 2014 Page No. III-1009	80 % to 120 %
56.	Ranitidine Injection	Assay	IP 2014 Page No. 2645	80 % to 120 %
57.	Ranitidine Tablets	Assay	IP 2014 Page No. 2646	80 % to 120 %
58.	Riboflavin Tablets	Uniformity of content	IP 2014 Page No. 2658	70 % to 130%
		Assay	IP 2014 ,Page No. 2659	80 % to 120%
59.	Rifampicin	Assay	IP 2014 Page No. 2660	80 % to 120%
60.	Rifampicin Capsules	Dissolution	IP 2014 Page No. 2661	55 % to 110%
61.	Risperidone Tablets	Dissolution	USP 35, Page No. 4574	55 % to 110%
		Assay	USP 35, Page No. 4574	80 % to 120%
62.	Roxithromycin Tablets	Identification	IP 2014 Page No. 2687	Qualitative
		Dissolution	IP 2014 Page No. 2687	55 % to 110 %
		Assay	IP 2014 Page No. 2687	80 % to 120 %
63.	Salbutamol Sulphate	Assay	IP 2014 Page No. 2702	80 % to 120 %
64.	Salbutamol Injection	Assay	IP 2014 Page No. 2703	80 % to 120 %

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65.	Salbutamol Syrup	Assay	IP 2014 Page No. 2703	80 % to 120 %
66.	Salmeterol and Fluticasone propionate inhalation	Identification	IP 2014 Page No. 2708	Qualitative
		Assay Salmeterol Fluticasone	IP 2014 Page No. 2708	80 % to 120 % 80 % to 120 %
67.	Salmeterol and Fluticasone propionate powder for inhalation	Identification	IP 2014 Page No. 2709	Qualitative
		Assay Salmeterol Fluticasone	IP 2014 Page No. 2709	80 % to 120 % 80 % to 120 %
68.	Sodium Chloride and Dextrose Injection	5-Hydroxymethylfurfural & Related substances	IP 2014 Page No. 2743	Qualitative
		Assay	IP 2014 Page No. 2743	80 % to 120 %
69.	Sodium chloride injection	Identification	IP 2014 Page No. 2744	Qualitative
		Assay		80 % to 120 %
70.	Sodium Valproate	Acidity or alkalinity	IP 2014 Page No. 2770	0 to 0.75 mL
		Related substances	IP 2014 Page No. 2770	Qualitative
		Assay	IP 2014 Page No. 2771	80 % to 120 %
71.	Sodium Valproate Oral Solution	Assay	IP 2014 Page No. 2772	80 % to 120 %
72.	Sodium Valproate Tablets	Assay	IP 2014 Page No. 2774	80 % to 120 %

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73.	Sorbitol 70% solution (non-crystallizing)	Assay	IP 2014 Page No. 2782	80 % to 120 %
74.	Terbutaline Tablets	Dissolution	IP 2014 Page No. 2844	55 % to 110 %
		Uniformity of content	IP 2014 Page No. 2845	70 % to 130 %
		Assay	IP 2014 Page No. 2845	80 % to 120 %
75.	Thiamine Hydrochloride	Assay	IP 2014 Page No. 2857	80 % to 120 %
76.	Thiamine Mononitrate	Assay	IP 2014 Page No. 2860	80 % to 120 %
77.	Thiopentone Sodium	Assay	IP 2014 Page No. 2864	80 % to 120 %
78.	Handloom Cotton Bandage Cloth and Cut Bandages	Threads per decimeter	IS 1963: 1981 (RA 2004)	End 10 to 200 Pick 10 to 100
		Mass	IS 1964: 2001 (RA 2006)	1 g/m ² to 220 g/m ²
78.	Handloom Cotton Bandage Cloth and Cut Bandages	Length	IS 1954: 1990 (RA 2002)	0.1 meter to 5 meter
		Width	IS 1954: 1990 (RA 2002)	0.1 meter to 5 meter
		pH value of aqueous extract	IS 1390: 1983 (RA 2004)	1.0 to 14.0
		Scouring loss	IS 1383: 1977 (RA 2004)	0.05 % to 2 %
		Freedom from optical Whitener	IS 863: 1988 (RA 2002)	Qualitative
79.	Handloom Cotton Gauge Absorbent	Threads per decimeter	IS 758: 1988 (RA 2006) Appendix A IS 1963: 1981 (RA 2004)	End 10 to 200 Pick 10 to 100
		Mass	IS 1964: 2001 (RA 2006)	1 g/m ² to 220 g/m ²

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	Handloom Cotton Gauge Absorbent	Length	IS 1954: 1990 (RA 2002)	0.1 meter to 5 meter
		Width	IS 1954: 1990 (RA 2002)	0.1 meter to 5 meter
		Absorbency	IS 2369:1967	0.1 minute to 60 minutes
		pH value of aqueous extract	IS 1390: 198 (RA 2004)	1.0 to 14.0
		Scouring loss	IS 1383: 1977 (RA 2004)	0.05 % to 2 %
		Freedom from optical whitener	IS 863: 1988 (RA 2002)	Qualitative (Present/Absent)
80.	Cotton Bandage Cloth or Rolled Bandage	Threads per decimeter	Drug and Cosmetics Act 1945 Schedule F(II)	Warp 10 to 200
		Weight		Weft 10 to 100
		Length		1 g/m ² to 220 g/m ²
		Width		0.1 meter to 5 meter
		Foreign matter		0.1 meter to 5 meter
		Fluorescence		0.05 % to 2 %
				Qualitative (Pass/Fail)
81.	Absorbent Cotton Gauge	Threads per decimeter	Drug and Cosmetics Act 1945 Schedule F(II)	Warp 10 to 200
		Weight		Weft 10 to 100
		Length		1 g/m ² to 220 g/m ²
		Width		0.1 meter to 5 meter
		Absorbency	Drug and Cosmetics Act 1945 Schedule F(II)	0.1 meter to 5 meter
		Foreign matter		0.1 minute to 60 minutes
		Fluorescence		0.05 % to 2 %
				Qualitative (Pass/Fail)

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82.	General Tests	Identification	IP 2014 Page No. 87 IP 2014 Page No. 134	Qualitative
		pH	IP 2014 Page No. 169 BP 2014 Page No. V-A248 USP 37 Page No. 402	1.0 to 14.0
		Acidity/Alkalinity	IP 2014 BP 2014	Qualitative (Pass/Fail)
		Weight / Specific gravity	IP 2014 Page No. 208 BP 2014 Page No. V-A241 USP 37 Page No. 475	0.73 to 13.6
		Refractive Index	IP 2014 Page No. 203 BP 2014 Page No. V-A241 USP 37 Page No. 475	1.300 to 1.700
		Chloride	IP 2014 Page No. 96 BP 2014 Page No. V-A260 USP 37 Page No. 157	Qualitative (Complies/ Does not comply)
		Arsenic	IP 2014 Page No. 96 BP 2014 Page No. V-A259 USP 37 Page No. 155	Qualitative (Complies/ Does not comply)
		Heavy metals	IP 2014 Page No. 96 BP 2014 Page No. V-A261 USP 37 Page No. 160	Qualitative (Complies/ Does not comply)
		Iron	IP 2014 Page No. 97 BP 2014 Page No. V-A264 USP 37 Page No. 167	Qualitative (Complies/ Does not comply)

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Lead	IP 2014 Page No. 97 BP 2014 Page No. V-A264 USP 37 Page No. 167	Qualitative (Complies/ Does not comply)
		Sulphate	IP 2014 Page No. 98 BP 2014 Page No. V-A266 USP 37 Page No. 157	Qualitative (Complies/ Does not comply)
		Boiling or Distillation range	IP 2014 Page No. 141 BP 2014 Page No. V-A239 USP 37 Page No. 1368	40°C to 250 °C
		Loss on Drying	IP 2014 Page No. 162 BP 2014 Page No. V-A296 USP 37 Page No. 369	0.1 % to 32.0 %
		Loss on Ignition	IP 2014 Page No. 163 USP 37 Page No. 370	0.5 % to 30.0 %
		Optical Rotation and Specific Optical Rotation	IP 2014 Page No. 167 BP 2014 Page No. V-A241 USP 37 Page No. 391	0 to 360°
		Sulphated Ash	IP 2014 Page No. 98 BP 2014 Page No. V-A293	0.05 % to 5.0 %
		Water	IP 2014 Page No. 113 BP 2014 Page No. V-A294 USP 37 Page No. 499	0.1 % to 30.0 %
		Acetyl value	IP 2014 Page No. 100 BP 2014 Page No. V-A304	10 to 175

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	General Tests	Acid value	IP 2014 Page No. 100 BP 2014 Page No. V-A304 USP 37 Page No. 189	0.1 to 10
		Hydroxyl value	IP 2014 Page No. 101 BP 2014 Page No. V-A304 USP 37 Page No. 190	5.0 to 300
		Iodine value	IP 2014 Page No. 102 BP 2014 Page No. V-A305 USP 37 Page No. 191	1.0 to 200
		Peroxide value	IP 2014 Page No. 109 BP 2014 Page No. V-A305 USP 37 Page No. 192	0.5 Meq to 25 Meq/1000g
		Saponification value	IP 2014 Page No. 109 BP 2014 Page No. V-A305 USP 37 Page No. 192	5.0 to 250
		Total Ash	IP 2014 Page No. 98 BP 2014 Page No. V-A322	0.1 % to 25 %
		Average weight	IP 2014 Page No. 959	0.06 g to 5.0 g
		Average fill	IP 2014 Page No. 930	0.020 g to 2.0 g
		Uniformity of volume	IP 2014 Page No. 953	5 mL to 300 mL
		Uniformity of mass	BP 2014 (Part 3) Page No. 57	5.0 g to 100 g
		Uniformity of weight	IP 2014 Page No. 959	0.06 g to 5.0 g
		Disintegration	IP 2010 Page No. 960 BP 2014 Page No. V-A333	1minute to 180 minutes

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	General Tests	Extractable volume/ Deliverable Volume	IP 2010 Page No. -956 BP 2014 Page No. V-A360 USP 37 Page No. 36	0.1 mL to 500 mL
		Particulate contamination	IP 2010 Page No. 957 BP 2014 Page No. V-A381 USP 37 Page No. 37	Qualitative

VIII. FOOD AND AGRICULTURAL PRODUCTS

1. Animal feed and feeding stuffs	Moisture content	IS 7874 (Part 1): 1975 (RA 1990)	0.02 g to 10.0 g/100g
	Crude fiber	IS 7874 (Part 1): 1975 (RA 1990)	0.05 g to 20.0 g/100g
	Crude fat	IS 7874 (Part 1): 1975 (RA 1990)	0.04 g to 20.0 g/100g
	Crude protein	IS 7874 (Part 1): 1975 (RA 1990)	1 g to 30.0 g/100g
	Total ash	IS 7874 (Part 1): 1975 (RA 1990)	0.1 g to 10 g/100g
	Acid insoluble ash	IS 7874 (Part 1): 1975 (RA 1990)	0.05 g to 5.0 g/100g
2. Edible Oil and fats	Moisture Content	IS 548 (Part 1): 1964 (RA 2010)	0.01 g to 10.0 g/100g
	Insoluble Impurities	IS 548 (Part 1): 1964 (RA 2010)	0.01 g to 1.0 g/100g
	Acid value of free fatty acid	IS 548 (Part 1): 1964 (RA 2010)	0.1 to 5.0
	Unsaponifiable Matter	IS 548 (Part 1): 1964 (RA 2010)	0.02 g to 10.0 g/100g
	Melting Point	IS 548 (Part 1): 1964 (RA 2010)	Maximum 45°C
	Refractive Index	IS 548 (Part 1): 1964 (RA 2010)	1.300 to 1.700
	Specific Gravity	IS 548 (Part 1): 1964 (RA 2010)	0.7 g to 1.9 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Edible Oil and fats	Iodine Value	IS 548 (Part 1): 1964 (RA 2010)	1 to 200
		Saponification Value	IS 548 (Part 1): 1964 (RA 2010)	15 to 300
		Acetyl Value and hydroxyl value	IS 548 (Part 1): 1964 (RA 2010)	1.0 to 500
		Allyl isothiocyanate	IS 548 (Part 1): 1964 (RA 2010)	0.05 to 1.0
		Peroxide Value	IS 548 (Part 1): 1964 (RA 2010)	0.25 meq to 20 meq/1000 g
		Baudowin Test	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Halphen Test	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Hexa bromide Test	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Hydrocyanic acid test	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Mineral oil	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
	Edible Starch and Starch Product	Moisture content	IS 4706 (Part 2): 1978 (RA 2005)	0.02 g to 20.0 g/100g
		Total ash	IS 4706 (Part 2): 1978 (RA 2005)	1 g to 20.0g/100g
		Total ash excluding sodium chloride	IS 4706 (Part 2): 1978 (RA 2005)	1 g to 20.0g/100g
		Sulphated ash	IS 4706 (Part 2): 1978 (RA 2005)	0.02 g to 5.0g/100g
		Acid insoluble ash	IS 4706 (Part 2): 1978 (RA 2005)	0.02 g to 2.5g/100g
		Starch	IS 4706 (Part 2): 1978 (RA 2005)	1 g to 100g/100g

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4.	Edible Starch and Starch Product	Protein	IS 4706 (Part 2): 1978 (RA 2005)	1 g to 20.0g/100g
		Crude fiber	IS 4706 (Part 2): 1978 (RA 2005)	0.5 g to 10.0g/100g
	Black Tea	Water extract	IS 13862: 1999	10 g to 50.0g/100g
		Total ash	IS 13854: 1994 (RA 1999)	1 g to 20.0g/100g
		Water soluble ash	IS 13855: 1993 (RA 1998)	10 g to 70.0g/100g
		Acid insoluble ash	IS 13857: 1993 (RA 1998)	0.05 g to 5.0g/100g
		Crude fiber	IS 10226 (Part 1): 1982 (RA 2005)	0.1 g to 25.0g/100g
5.	Non Alcoholic Beverages Bases (concentrates) for domestic use Liquid Concentrate	Water insoluble matter	IS 1699: 1995 (RA 2009)	0.05 g to 10.0g/100g
6.	Milk, Dahi, Milk Cream	Fat in Dahi	IS 1479 (Part 2): 1961 (RA 2009)	0.1 g to 50.0g/100g
		Sugar	IS 1479 (Part 2): 1961 (RA 2009) IS 11764: 2005	0.5 g to 10.0g/100g
		pH	IS 1479 (Part 2): 1961 (RA 2009)	1 to 14
		Fat in Cream	IS 3509: 1966 (RA 2003)	0.1 g to 50.0 g/100g
		Titratable acidity (as Lactic acid)	IS 3509: 1966 (RA 2003) IS 1479 (Part 1): 1960 (RA 2003)	0.1 g to 5.0g/100g 0.1 g to 5.0g/100g
		Total solids	IS 1479 (Part 2): 1961 (RA 2009)	1 g to 20.0g/100g
		Total nitrogen	IS 1479 (Part 2): 1961 (RA 2009)	0.5 g to 10.0g/100g

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	Milk, Dahi, Milk Cream	True protein	IS 1479 (Part 2): 1961 (RA 2009)	1 g to 50.0g/100g
		Chloride	IS 1479 (Part 2): 1961 (RA 2009)	0.1 g to 5.0g/100g
		Clot on boiling	IS 1479 (Part 1): 1960 (RA 2003)	Qualitative
		Detection of urea	IS 1479 (Part 1): 1960 (RA 2003)	Qualitative
		Alcohol test	IS 1479 (Part 2): 1961 (RA 2003)	Qualitative
7.	Food Grains and Pulses	Moisture content	IS 4333 (Part 2): 2002 (RA2012)	1 g to 20.0g/100g
		Mass of 1000 grains	IS 4333 (Part 4) : 2002 (RA 2012)	0.1 g to 300 g
		Acid insoluble ash	IS 4684: 1975 (RA 2005)	0.03 g to 30g/100g
		Protein	IS 4684: 1975 (RA 1983) IS 7219: 1973 (RA 2005)	0.5 g to 50.0g/100g
8.	Bakery Products	Moisture content	IS 12711: 1989 (RA 1994)	0.5 g to 20.0g/100g
		Total ash	IS 12711: 1989 (RA 1994)	0.5 g to 10.0g/100g
		Acid insoluble ash	IS 12711: 1989 (RA 1994)	0.02 g to 1.0g/100g
		Fat content	IS 12711: 1989 (RA 1994)	1 g to 50g/100g
		Acidity of extracted fat	IS 12711: 1989 (RA 1994)	0.5 g to 6.0g/100g
		Alcoholic acidity	IS 12711: 1989 (RA 1994)	0.01 g to 2.0g/100g
9.	Biscuit	Moisture content	IS 1011: 2002 (RA 2009) Annexure B	0.5 g to 10 g/100g
		Acid insoluble ash	IS 1011: 2002 (RA 2009) Annexure C	0.01 g to 5 g/100g

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	Biscuit	Acidity of extracted fat (as oleic acid)	IS 1011: 2002 (RA 2009) Annexure D	0.05 g to 10 g/100g
10.	Processed Fruits and Vegetables	Moisture content	IS 4624: 1978 (RA 2005)	5 g to 90.0g/100g
		Protein	IS 7219: 1973 (RA 2005)	0.5 g to 20.0g/100g
11.	Iodized Salt, Vacuum Evaporated Iodized, & Refined Iodized Salt	Moisture content	IS 7224: 2006	0.05 g to 10.0g/100g
		Matter insoluble in water	IS 7224: 2006	0.05 g to 5.0g/100g
		Chloride content	IS 7224: 2006	90 g to 100.0g/100g
		Matter soluble in water other than sodium chloride	IS 7224: 2006	0.05 g to 5.0g/100g
		Calcium	IS 7224: 2006	0.01 g to 5.0g/100g
		Magnesium	IS 7224 : 2006	0.01 g to 5.0g/100g
		Sulphate	IS 7224: 2006	0.1 g to 10.0g/100g
		Alkalinity	IS 7224: 2006	0.05 g to 5.0g/100g
12.	Sugar Confectionery and Sugar used in food preservation industry	Iodine	IS 7224: 2006	1 mg/kg to 100 mg/kg
		Acid insoluble ash	IS 6287: 1985 (RA 1999)	0.02 g to 2.0g/100g
		Reducing sugar	IS 6287: 1985 (RA 1999) IS 1151: 2003 (RA 2008)	0.5 g to 50.0g/100g
		Sucrose content	IS 6287: 1985 (RA 1999)	5 g to 100.0g/100g

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	Sugar Confectionery and Sugar used in food preservation industry	Fat	IS 6287:1985 (RA 1999)	0.5 g to 20.0g/100g
		Protein	IS 6287: 1985 (RA 1999)	0.5 g to 20.0g/100g
13.	Spices and Condiments	Moisture content	IS 1797: 1985 (RA 2009)	0.05 g to 20.0g/100g
		Total ash	IS 1797: 1985 (RA 2009)	0.5 g to 10.0g/100g
		Acid insoluble ash	IS 1797: 1985 (RA 2009)	0.05 g to 5.0g/100g
		Water insoluble ash of total ash	IS 1797: 1985 (RA 2009)	0.02 g to 20.0g/100g
		Crude fiber	IS 1797: 1985 (RA 2009)	0.04 g to 40.0g/100g
14.	Food Colour Sunset Yellow, Ponceau 4R, Tartrazine, Erythrosine	Total dye content in Sunset Yellow	IS 1695: 1994 (RA 2008)	1 g to 100.0g/100g
		Total dye content in Ponceau 4R	IS 2558: 1994 (RA 2009)	1 g to 100.0g/100g
		Total dye content in Tartrazine	IS 1694: 1994 (RA 2008)	1 g to 100.0g/100g
		Total dye content in Tartrazine	IS 1697: 1994 (RA 2008)	1 g to 100.0g/100g
		Loss on drying	IS 1699: 1995 (RA 2009)	0.05 g to 20.0g/100g
		Water insoluble matter	IS 1699: 1995 (RA 2009)	0.02 g to 10.0g/100g
		Combined ether extracts	IS 1699: 1995 (RA 2009)	0.01 g to 20.0g/100g

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15.	Wheat flour (Maida) for General Purpose	Moisture	IS 1009: 1979 (RA 2010)	0.1 g to 20.0 g/100g
		Total ash	IS 1009: 1979 (RA 2010)	0.02 g to 10.0 g/100g
		Acid insoluble ash	IS 1009: 1979 (RA 2010)	0.02 g to 2.0 g/100g
		Gluten	IS 1009: 1979 (RA 2010)	1.0 g to 20.0 g/100g
		Alcoholic acidity	IS 1009: 1979 (RA 2010)	0.01 g to 5.0 g/100g
		Granularity	IS 1009: 1979 (RA 2010)	Qualitative
16.	Wheat Atta	Moisture	IS 1155: 1968 (RA 2010)	0.1 g to 20.0 g/100g
		Total ash	IS 1155: 1968 (RA 2010)	0.02 g to 5.0 g/100g
		Acid insoluble ash	IS 1155: 1968 (RA 2010)	0.02 g to 2.5 g/100g
		Gluten	IS 1155: 1968 (RA 2010)	1.0 g to 15.0 g/100g
		Crude fiber	IS 1155: 1968 (RA 2010)	0.05 g to 10.0 g/100g
		Alcoholic acidity	IS 1155: 1968 (RA 2010)	0.05 g to 2.0 g/100g
		Granularity	IS 1155: 1968 (RA 2010)	Qualitative
17.	Suji	Moisture	IS 1010: 1968	1 g to 20.0 g/100g
		Total ash	IS 1010: 1968	0.5 g to 2.5 g/100g
		Acid insoluble ash	IS 1010: 1968	0.02 g to 2.0 g/100g

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	Suji	Gluten	IS 1010: 1968	1.0 g to 20.0 g/100g
		Alcoholic acidity	IS 1010: 1968	0.05 g to 2.0 g/100g
18.	Milk powder	Moisture	IS 16072: 2012	0.1 g to 20.0 g/100g
		Total solids	IS 16072: 2012	80 to 99.9
		Fat	IS 11721: 2013	0.1 g to 50.0g/100g
		Total ash (on dry basis)	IS 1165: 2002 (RA 2009) Annexure A	0.03 g to 10.0g/100g
		Titrateable acidity (lactic acid)	IS 1165: 2002 (RA 2009) Annexure B	0.05 g to 5.0g/100g
19.	Condensed Milk, Partly Skimmed and Skimmed Condensed Milk	Size of lactose crystals	IS 1166: 1986 (RA 2009) Annexure A	Qualitative
		Total milk solids	IS 1166: 1986 (RA 2009) Annexure B	1 g to 50g/100g
		Fat	IS 11762: 2013	0.1 g to 40.0g/100g
		Sucrose	IS 1166: 1986 (RA 2009) Annexure C IS 11764: 2005	0.5 g to 50.0g/100g
		Titrateable acidity (as lactic acid)	IS 1166: 1986 (RA 2009) Annexure D	0.1 g to 5.0g/100g
		Accelerated storage test	IS 1166: 1986 (RA 2009) Annexure E	Qualitative
20.	Sweetened ultra high temperature (UHT) Treated Condensed Milk	Total milk solids	IS 1166: 1986 (RA 2009) Annexure B	1 g to 50g/100g
		Fat	IS 11762: 2013	0.1 g to 40.0g/100g
		Sucrose	IS 1166: 1986 (RA 2009) Annexure C	0.5 g to 50.0g/100g

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21.	Sweetened ultra high temperature (UHT) Treated Condensed Milk	Titratable acidity (as lactic acid)	IS 1166: 1986 (RA 2009) Annexure D	0.1 g to 5.0g/100g
		Titratable acidity (as acetic acidity) after incubation of packages for 7 days at 37°C	IS 1166: 1986 (RA 2009) Annexure D	0.1 g to 5.0g/100g
		Size of lactose crystals	IS 1166: 1986 (RA 2009) Annexure A	Qualitative
	Skim Milk Powder	Moisture	IS 16072: 2012	0.1 g to 20.0 g/100g
		Fat	IS 11721: 2013	0.1 g to 30.0g/100g
		Total ash (on dry basis)	IS 14433 (Part 1): 1997 Annexure B	0.5 g to 10.0g/100g
		Titratable acidity (as lactic acid)	IS 11766: 1986 (RA 2003)	0.1 g to 5.0g/100g
		Lactate content	IS 11202: 2012	0 to 1.5 mg/g
		Scorched particles	IS 13500: 1992 (RA 2003)	Qualitative
22.	Partly Skimmed Milk Powder	Moisture	IS 16072: 2012	0.1 g to 20.0 g/100g
		Fat	IS 11721: 2013	0.1 g to 30.0g/100g
		Total ash (on dry basis)	IS 14433 (Part 1): 1997 Annexure B	0.5 g to 10.0g/100g
		Titratable acidity (as lactic acid)	IS 11766: 1986 (RA 2003)	0.1 g to 5.0g/100g

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23.	Protein-rich food supplements infants and preschool children, including supplement foods with or without minerals and vitamins	Protein	IS 4684: 1975 (RA 1983)	1.0 g to 50g/100g
		Moisture	IS 4684: 1975 (RA 1983)	0.1 g to 10g/100g
		Fat	IS 4684: 1975 (RA 1983)	0.1 g to 10g/100g
		Total ash	IS 4684: 1975 (RA 1983)	0.1 g to 10g/100g
		Acid insoluble ash	IS 4684: 1975 (RA 1983)	0.01 g to 050g/100g
		Crude fiber	IS 4684: 1975 (RA 1983)	0.1 g to 8.0g/100g
		Calcium	IS 5949: 1990 (RA 2003)	100 mg to 1000 mg/100g
23.	Protein-rich food supplements infants and preschool children, including supplement foods with or without minerals & vitamins	Iron	IS 14433 (Part 1): 1997	0.4 mg to 1000 mg /100g
		Ascorbic acid	IS 5838: 1970 (RA 2005)	5.0 mg to 1000 mg /100g
		Vitamin A	IS 5886: 1970 (RA 2005)	100 mcg to 1000 mcg/100g
		Thiamine	IS 5398: 1969 (RA 2005)	0.25 mg to 20mg/100g
		Riboflavin	IS 5399: 1969 (RA 2005)	0.25 mg to 20mg/100g
24.	Ready to eat Protein-rich extruded food	Nicotinic Acid	IS 5400: 1969 (RA 2005)	2 mg to 50mg/100g
		Protein	IS 7219: 1973 (RA 2005)	1.0 g to 50g/100g
		Moisture	IS 1011: 2002 (RA 2009)	0.1 g to 10g/100g
		Fat	IS 4684: 1975 (RA 1983)	0.1 g to 10g/100g

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	Ready to eat Protein-rich extruded food	Calories	IS 9487: 1980 (RA 1999) Page No. 6 Table-1 Sl. No. III, Column No. 4 IS 14433 (Part 1): 1997 Page No. 2 clause 6.8.1.3 Note 2	200 Kcal. to 600 Kcal./100g
		Total ash	IS 4684: 1975 (RA 1983)	0.1 g to 10g/100g
		Acid insoluble ash	IS 1011: 2002 (RA 2009)	0.01 g to 050g/100g
		Crude fiber	IS 10226 (Part 1): 1982 (RA 2005)	0.1 g to 8.0g/100g
		Calcium	IS 5949: 1990 (RA 2003)	100 mg to 1000 mg/100g
		Iron	IS 14433 (Part 1): 1997	0.4 mg to 1000mg/ 100g
		Vitamin A	IS 5886: 1970 (RA 2005)	100 mcg to 1000mcg /100g
		Thiamine	IS 5398: 1969 (RA 2005)	0.25 mg to 20mg/100g
		Riboflavin	IS 5399: 1969 (RA 2005)	0.25 mg to 20mg/100g
		Nicotinic Acid	IS 5400: 1969 (RA 2005)	2 mg to 50mg/100g

IX. PLASTIC AND PLASTIC PRODUCTS

1	Plastics Bottles, Feeding Bottles and Containers (Jar, Glass, Cups) Plastic Cap (closures) of containers and Foil (for sealing of plastic cups/ glasses/ Packaged Natural Mineral Water and Packaged Drinking Water)	Migration Test	IS 9845: 1998 (RA 2010)	0.01 mg/L to 60 mg/L 0.01 mg/dm ² to 10 mg/dm ²
		Water Potability Test	IS 15410: 2003 (RA 2009) Annexure B	Qualitative

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2.	Polyethylene Flexible Pouches for the Packing of Natural Mineral Water & Packaged Drinking Water	Overall Migration	IS 9845: 1998 (RA 2010)	0.01 mg/L to 60 mg/L 0.01 mg/dm ² to 10 mg/dm ²
		Water Potability Test	IS 15609: 2005 (RA 2010) Annexure E	Qualitative
	Polyethylene for use in contact with food stuff, Pharma and drinking water, Caps, Aluminum foils, Laminator of packing material			
X.	WATER			
1	Drinking Water, Surface & Ground Water, Water for Ice Manufacture, Water for Storage batteries, Water for Tanning Industry, Water for Swimming Pool, Water for Processed Food Industry, Construction water, Reagent grade water	Colour	IS 3025 (Part 4): 1983 (RA 2002)	1 Hazen to 25 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2002)	Qualitative
		pH	IS 3025 (Part 11): 1983 (RA 2002)	0.1 to 13.9
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1NTU to 1000 NTU
		Total Dissolved solids	IS 3025(Part 16): 1984 (RA 2006)	2 mg/L to 10000 mg/L
		Aluminum (as Al)	IS 3025 (Part 2): 2004	10 µg/L to 500 µg/L
		Ammonia (as total ammonia-N)	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/L to 50 mg/L
		Anionic surface active agents (as MBAS)	IS 13428: 2005 Annexure K	0.1 mg/L to 1 mg/L

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	Drinking Water, Surface & Ground Water, Water for Ice Manufacture, Water for Storage batteries, Water for Tanning Industry, Water for Swimming Pool, Water for Processed Food Industry, Construction water, Reagent grade water	Barium (as Ba)	IS 3025 (Part 2): 2004	5 µg/L to 1000 µg/L
		Boron (as B)	IS 3025 (Part 2): 2004	5 µg/L to 1000 µg/L
		Calcium (as Ca)	IS 3025 (Part 40):1991 (RA 2003)	1 mg/L to 500 mg/L
		Chloramines (as Cl ₂)	IS 3025 (Part 26):1986 (RA 2003)	0.2 mg/L to 5 mg/L
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2003)	1 mg/L to 1000 mg/L
		Copper (as Cu)	IS 3025 (Part 2): 2004	10 µg/L to 500 µg/L
		Fluoride (as F)	IS 3025 (Part 60): 2008, APHA (22 nd Edition) 4500 D: 2012	0.1 mg/L to 5 mg/L
		Free residual chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.1 mg/L to 5 mg/L
		Iron (Fe)	IS 3025 (Part 53): 2003 Method-b Page No. 3	50 µg/L to 500 µg/L
		Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2003) Method –b Page No. 2	1 mg/L to 500 mg/L
		Manganese (as Mn)	IS 3025 (Part 2): 2004	90 µg/L to 500 µg/L
		Mineral oil	IS 3025 (Part 39): 1991 (RA 2003)	0.001 mg/L to 10mg/L
		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/L to 5 mg/L
		Phenolic compound (as C ₆ H ₅ OH)	IS 3025 (Part 43): 1992 (RA 2003)	0.001 mg/L to 1.0 mg/L
		Selenium (as Se)	IS 3025 (Part 2): 2004	9 µg/L to 500 µg/L

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	Drinking Water, Surface & Ground Water, Water for Ice Manufacture, Water for Storage batteries, Water for Tanning Industry, Water for Swimming Pool, Water for Processed Food Industry, Construction water, Reagent grade water	Silver (as Ag)	IS 3025 (Part 2): 2004	90 µg/L to 500 µg/L
		Sulphate (as SO ₄)	IS 3025 (Part 24): 1986 (RA 2003) Method 1 Page No. 3	1 mg/L to 1000 mg/L
		Sulphide (as H ₂ S)	IS 3025 (Part 29): 1986 (RA 2003)	0.05 mg/L to 1 mg/L
		Total alkalinity	IS 3025 (Part 23): 1991 (RA 2003)	0.5 mg/L to 500 mg/L
		Total hardness (as CaCO ₃)	IS 3025 (Part 21): 2009	1 mg/L to 1000 mg/L
		Zinc (as Zn)	IS 3025 (Part 2): 2004	500 µg/L to 10000 µg/L
		Cadmium (as Cd)	IS 3025 (Part 2): 2004	4 µg/L to 500 µg/L
		Cyanide (as CN)	IS 3025 (Part 27): 1986 (RA 2009)	0.01 mg/L to 1.0 mg/L
		Lead (as Pb)	IS 3025 (Part 2): 2004 IS 3025 (Part 47): 1994	9 µg/L to 500 µg/L
		Mercury (as Hg)	IS 3025 (Part 2): 2004	2 µg/L to 20 µg/L
		Molybdenum (as Mo)	IS 3025 (Part 2): 2004	60 µg/L to 500 µg/L
		Nickel(as Ni)	IS 3025 (Part 2): 2004	10 µg/L to 500 µg/L
		Total Arsenic (as As)	IS 3025 (Part 2): 2004	9 µg/L to 500 µg/L
		Chromium (as Cr hexavalent)	IS 3025 (Part 2): 2004	40 µg/L to 500 µg/L
		Non-Volatile residue	IS 1069: 1993 (RA 2003)	1 mg/L to 10 mg/L
		Oxidizable matter	IS 1069: 1993 (RA 2003)	Qualitative
		Conductivity	IS 3025 (Part 14): 2013	1 µS/cm to 50000 µS/cm

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking Water, Surface & Ground Water, Water for Ice Manufacture, Water for Storage batteries, Water for Tanning Industry, Water for Swimming Pool, Water for Processed Food Industry, Construction water, Reagent grade water	Oxygen absorbed in 4 hours at 27°C	IS 3025 (Part 63): 2007	0.4 mg/L to 5 mg/L
		Dissolved oxygen	IS 3025 (Part 38): 1989 (RA 2003) Method-1 Page No. 1	1 mg/L to 10mg/L
		Silica	IS 3025 (Part 35): 1988 (RA 2003)	0.1 mg/L to 5mg/L
		Phosphates (as PO ₄)	IS 3025(Part 31): 1988 (RA 2003)	0.3 mg/L to 2 mg/L
		Total Solids	IS 3025 (Part 16): 1984 (RA2006) Method -1	10 mg/L to 2000mg/L
		Acidity	IS 3025 (Part 22): 1986 (RA 2003) Method-1 Page No. 1	0.5 mg/L to 500 mg/L
		Organic/TDS	IS 3025 (Part 18): 1984 (RA 2012)	10 mg/L to 1000 mg/L
		Inorganic/TDS	IS 3025 (Part 18): 1984 (RA 2012)	10 mg/L to 1000 mg/L
		Total Suspended solids	IS 3025 (Part 17): 1984 (RA 2012) Method -1	10 mg/L to 2000mg/L
		Colour retention of KMnO ₄ at 27×2°C	IS 1070: 1992 (RA 2003) Annexure A	Qualitative
2.	Waste Water	Conductivity	IS 3025 (Part 14): 1984 (RA 2006) Method -3	1 µS/cm to 50000 µS/cm
		Fixed solids	APHA (22 nd Edition) 2540E: 2012	1 mg/L to 1000 mg/L
		Volatile solids	APHA (22 nd Edition) 2540E: 2012	1 mg/L to 1000 mg/L
		Total Solids	IS 3025 (Part 16): 1984 (RA 2006)	10 mg/L to 2000 mg/L

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	Waste Water	Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2012) Method -1	10 mg/L to 2000 mg/L
		Dissolved oxygen	IS 3025 (Part 38): 1989 (RA 2003) Method -1 Page No. 1	1 mg/L to 10 mg/L
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003) Method-II Page No. 3	1 mg/L to 1000 mg/L
		Iron (Fe)	IS 3025 (Part 53): 2003 Method-b Page No. 3	50 µg/L to 500 µg/L
		Lead (as Pb)	IS 3025 (Part 2): 2004	9 µg/L to 500 µg/L
		Potassium (K)	IS 3025 (Part 2) : 2004	500 µg/L to 10000 µg/L
		Sodium (as Na)	IS 3025 (Part 2): 2004	500 µg/L to 10000 µg/L
		Zinc (as Zn)	IS 3025(Part 2): 2004	50 µg/L to 500 µg/L
		Bio-chemical oxygen demand (BOD)	IS 3025 (Part 44): 1993 (RA 2003)	2 mg/L to 5000 mg/L
		Chemical oxygen demand (COD)	APHA (22 nd Edition) 5220 B: 2012	2 mg/L to 10000 mg/L
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2003)	1 mg/L to 100 mg/L
		Lead (as Pb)	IS 3025 (Part 2): 2004 IS 3025 (Part 47): 1994	9 µg/L to 500 µg/L
		Mercury (as Hg)	IS 3025 (Part 2): 2004	2 µg/L to 20 µg/L
		Molybdenum (as Mo)	IS 3025 (Part 2): 2004	60 µg/L to 500 µg/L

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	Waste Water	Nickel(as Ni)	IS 3025 (Part 2): 2004	10 µg/L to 500 µg/L
		Arsenic (as As)	IS 3025 (Part 2): 2004	9 µg/L to 500 µg/L
		Chromium (as Cr hexavalent)	IS 3025 (Part 2): 2004	40 µg/L to 500 µg/L
		Zinc (as Zn)	IS 3025 (Part 2): 2004	500 µg/L to 10000 µg/L
		Cadmium (as Cd)	IS 3025 (Part 2): 2004	4 µg/L to 500 µg/L
		Manganese (as Mn)	IS 3025 (Part 2): 2004	90 µg/L to 500 µg/L
		Nickel(as Ni)	IS 3025 (Part 2): 2004	10 µg/L to 500 µg/L
3.	Packaged Drinking Water other than Packaged Natural Water And Packaged Natural Mineral Water	Colour	IS 3025 (Part 4): 1983 (RA 2002)	1 Hazen to 25 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2002)	Qualitative
		pH	IS 3025 (Part 11): 1983 (RA 2002)	0.1 to 13.9
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1NTU to 1000 NTU
		Total Dissolved solids	IS 3025(Part 16): 1984 (RA 2006)	2 mg/L to 10000 mg/L
		Aluminum (as Al)	IS 3025 (Part 2): 2004	10 µg/L to 500 µg/L
		Ammonia (as total ammonia-N)	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/L to 50 mg/L
		Anionic surface active agents (as MBAS)	IS 13428: 2005 Annexure K	0.1 mg/L to 1 mg/L
		Barium (as Ba)	IS 3025 (Part 2): 2004	5 µg/L to 1000 µg/L

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	Packaged Drinking Water other than Packaged Natural Water And Packaged Natural Mineral Water	Boron (as B)	IS 3025 (Part 2): 2004	5 µg/L to 1000 µg/L
		Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2003)	1 mg/L to 500 mg/L
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2003)	1 mg/L to 1000 mg/L
		Copper (as Cu)	IS 3025 (Part 2): 2004	25 µg/L to 500 µg/L
		Fluoride (as F)	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500 D: 2012	0.1 mg/L to 5 mg/L
		Free residual chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.1 mg/L to 5 mg/L
		Iron (Fe)	IS 3025 (Part 53): 2003 Method –b Page No. 3	50 µg/L to 500 µg/L
		Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2003) Method–b Page No. 2	1 mg/L to 500 mg/L
		Manganese (as Mn)	IS 3025 (Part 2): 2004	90 µg/L to 500 µg/L
		Mineral oil	IS 3025 (Part 39): 1991 (RA 2003)	0.001 mg/L to 10 mg/L
		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/L to 5 mg/L
		Phenolic compound (as C ₆ H ₅ OH)	IS 3025 (Part 43): 1992 (RA 2003)	0.001 mg/L to 1.0 mg/L
		Selenium (as Se)	IS 3025 (Part 2): 2004	9 µg/L to 500 µg/L
		Silver (as Ag)	IS 3025 (Part 2): 2004	90 µg/L to 500 µg/L
		Sulphate (as SO ₄)	IS 3025 (Part 24): 1986 (RA 2003) Method-1 Page No. 3	1 mg/L to 1000 mg/L

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	Packaged Drinking Water other than Packaged Natural Water And Packaged Natural Mineral Water	Sulphide (as H ₂ S)	IS 3025 (Part 29): 1986 (RA 2003)	0.05 mg/L to 1 mg/L
		Total alkalinity	IS 3025 (Part 23): 1991 (RA 2003)	0.5 mg/L to 500mg/L
		Total hardness (as CaCO ₃)	IS 3025 (Part 21): 2009	1 mg/L to 1000mg/L
		Zinc (as Zn)	IS 3025 (Part 2): 2004	500 mg/L to 10000 µg/L
		Cadmium (as Cd)	IS 3025 (Part 2): 2004	4 µg/L to 500 µg/L
		Cyanide (as CN)	IS 3025 (Part 27): 1986 (RA 2009)	0.01 mg/L to 1.0mg/L
		Lead (as Pb)	IS 3025 (Part 2): 2004 IS 3025 (Part 47): 1994	9 µg/L to 500 µg/L
		Mercury (as Hg)	IS 3025(Part 2): 2004	2 µg/L to 20 µg/L
		Molybdenum (as Mo)	IS 3025(Part 2): 2004	60 µg/L to 500 µg/L
		Nickel(as Ni)	IS 3025(Part 2): 2004	10 µg/L to 500 µg/L
		Arsenic (as As)	IS 3025(Part 2): 2004	9 µg/L to 500 µg/L
		Chromium (as Cr hexavalent)	IS 3025(Part 2): 2004	40 µg/L to 500 µg/L
		Nitrite (as NO ₂)	IS 3025 (Part 34): 1988 (RA 2003)	0.01 mg/L to 10 mg/L
		Sodium (as Na)	IS 3025(Part 2): 2004	500 µg/L to 10000 µg/L
		Borate (as B)	IS 3025 (Part 2): 2004	2000 µg/L to 12000 µg/L

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	Packaged Drinking Water other than Packaged Natural Water And Packaged Natural Mineral Water	Pesticide Residues P,P DDE (4,4-DDE) O,P DDT (2,4-DDT) P,P DDT (4,4 DDT) 2,4-DDE(O,P-DDE) 2,4-DDD (O,P-DDD) 4,4-DDD (P,P-DDD) Alpha HCH Beta HCH Delta HCH Lindane Aldrin Dieldrin Alpha Endosulfan Beta Endosulfan Endosulfan Sulfate Butachlor Alachlor Atrazine Monocrotophos Phorate Phorate Sulfone Phorate Sulfoxide Malathion Malaoxon Methyl Parathion Paraoxon Methyl Ethion Chlorpyrifos	AOAC Official method 990.06 18 th Edition, Part 1, Chapter 10 Page No. 27	0.025 µg/L to 0.100 µg/L

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	Packaged Drinking Water other than Packaged Natural Water And Packaged Natural Mineral Water	2,4-D	In-house method (HPLC/VAL-01) Issue No.01 Issue Date 15/07/2014	0.025 µg/L to 0.100 µg/L
		Isoproturon	In-house method (HPLC/VOL-02) Issue No.01 Issue Date 15/07/2014	0.025 µg/L to 0.100 µg/L
		Polynuclear Aromatic Hydrocarbons Residue		
		Acenaphthene	APHA (22 nd Edition) 6440: 2012	0.1 µg/L to 100 µg/L
		Acenaphthylene		
		Anthracene		
		Benzo (A) Anthracene		
		Benzo (A) Pyrene		
		Benzo (B) Fluoranthene		
		Benzo (G, H, I) Perylene		
		Benzo (K) Fluoranthene		
		Chrysene		
		Dibenz (A,H) Anthracene		
		Fluoranthene		
		Fluorene		
		Indeno (1,2,3-CD) Pyrene		
		Naphthalene		
		Phenanthrene		
		Pyrene		
		Polychlorinated Biphenyls Residue		
		2,6, Dichloro Biphenyl	IS 13428: 2005 Annexure M	0.1 µg/L to 100 µg/L
		2,4,4', Trichloro Biphenyl		
		2,2',5,5', Tetrachloro Biphenyl		

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.01.2015
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Packaged Drinking Water other than Packaged Natural Water And Packaged Natural Mineral Water	2,2',4,4',5,5' Hexachlorobiphenyl 2,2',3,4,4',5 Hexachloobiphenyl 2,2',3,4,4',5,5' Heptachloro Biphenyl	IS 13428: 2005 Annexure M	0.1 µg/L to 100 µg/L

AT SITE

I. AIR, GASES & ATMOSPHERE

1. Stack Emission	Carbon Monoxide (CO)	WI/ENV/17 (Electro-Chemical Method) Issue No.: 01 Issue Date: 01.04.2014	0 to 5000 mg/m ³
	Carbon Dioxide (CO ₂)	WI/ENV/17 (Electro-Chemical Method) Issue No.: 01 Issue Date: 01.04.2014	0 to 99.9 %
	Oxygen (O ₂)	WI/ENV/17 (Electro-Chemical Method) Issue No.: 01 Issue Date: 01.04.2014	0 to 21 %
2. Noise Monitoring (Excluding Vibration)	Ambient Noise	WI/ENV/25 Issue No.: 01 Issue Date: 01.04.2014	30 dB(A) leq to 130 dB(A) leq

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Noise Monitoring (Excluding Vibration)	Source Monitoring (DG)	WI/ENV/26 Issue No.: 01 Issue Date: 01.04.2014	30 dB (A) leq to 130 dB (A) leq

-X-X-X-X-X-X-X-X-X-X-X-

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**.