

Laboratory **AGSS Analytical and Research Lab Pvt. Ltd., C-37/2, Lawrence Road, Industrial Area, New Delhi**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6183**

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Validity **30.08.2017 to 29.08.2019**

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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BIOLOGICAL TESTING

I. FOOD & AGRICULTURAL PRODUCTS				
1.	Bakery & Confectionery Products	Total Bacterial count/Total Plate Count	IS 5402	≥ 10 cfu / g
		Yeast & Mould Count	IS 5403	≥ 10 cfu / g
		Escherichia coli	IS 5887 (Part-1)	Qualitative Present/Absent/gm
		Coliform Count	IS 5401 (Part- 1)	≥ 10 cfu / g
			IS 5401 (Part-2)	Qualitative (Present or Absent) /x g
	Staphylococcus aureus	IS 5887 (Part- 2)	Qualitative Present/Absent/gm	
2.	Canned & Processed foods	Total Bacterial Count	IS 5402	≥ 10 cfu/gm
		Coliform	IS 5401 (Part- 1) IS 5401 (Part-2)	≥ 10 cfu / g
		Yeast & Mould Count	IS 5403	≥ 10 cfu/gm
		Escherichia coli	IS 5887 (Part-1)	Qualitative Present/Absent/gm
3.	Beverages (Alcoholic / Non-Alcoholic)	Escherichia coli	IS 5887 (Part-1)	Qualitative Present/Absent/gm
		Total Bacterial Count	IS 5402	≥1 cfu/ml
		Coliform Count	IS 5401 (Part- 1)	≥10cfu/ml ≥ 1 cfu/ml
		Yeast & Mould Count	IS 5403	≥10cfu/ml ≥ 1 cfu/ml
		Staphylococcus aureus	IS 5887 (Part- 2)	≥10cfu/ml ≥ 1 cfu/ml
4.	Cereals, pulses & Cereal Products	Aerobic Plate Count	IS 5402	≥ 10 cfu /gm
		Coliform Count	IS 5401 (Part- 1)	≥10 cfu/gm
			IS 5401 (Part-2)	Qualitative (Present or Absent) /x g
		Yeast & mould Count	IS 5403	≥ 10 cfu/gm
		Escherichia coli	IS 5887 (Part-1)	Qualitative Present/Absent/gm

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		Staphylococcus aureus	IS 5887 (Part- 2)	≥ 10 cfu / g Qualitative (Present or Absent) / g
5.	Milk & Dairy Products	Total Bacterial count	IS 5402	≥ 10cfu/gm/ml/ ≥ 1 cfu/gm/ml
		Coliform Count	IS 5401 (Part- 1)	≥ 10 cfu/g ≥ 1 cfu/ml
			IS 5401 (Part-2)	Qualitative (Present or Absent) /x g
		Yeast & Mould Count	IS 5403	≥ 10cfu/gm/ml/ ≥ 1 cfu /gm/ml
		E. coli	IS 5887 (Part-1)	Qualitative Present/Absent/ gm/ml
		Staphylococcus aureus	IS 5887 (Part- 2)	≥ 10 cfu / g Qualitative Present/Absent/ gm/ml
6.	Meat& Meat Products	Total Plate Count	IS 5402	≥ 10 cfu/gm
		E. coli	IS 5887 (Part-1)	Qualitative Present/Absent/ gm
		Staphylococcus aureus	IS 5887 (Part- 2)	≥ 10 cfu / g Qualitative Present/Ab/ gm
		Yeast & Mould Count	IS 5403	≥ 10 cfu/gm
7.	Fruits & Vegetables Products	Total Plate Count	IS 5402	≥ 10 cfu/gm/ml
		Coliform Count	IS 5401 (Part- 1)	≥ 10 cfu/gm/ml
			IS 5401 (Part-2)	Qualitative (Present or Absent) /x g
		Yeast & Mould	IS 5403	≥ 10 cfu/gm/ml
		Staphylococcus aureus	IS 5887 (Part- 2)	≥ 10 cfu / g/ml
				Qualitative Present/Absent/ gm/ml
E. coli	IS 5887 (Part-1)	Qualitative Present/Absent/ gm/ml		

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II.	WATER			
1.	Packaged Drinking Water (Other than Natural Mineral Water)	Aerobic Microbial count (at 37 °C)	IS 5402	≥ 1 cfu / ml
		Aerobic Microbial count (at 22 °C)	IS 5402	≥ 1 cfu / ml
		Coliform Bacteria	IS 5401 (Part- 1) IS 15185	Qualitative (Present /Absent)/250 ml
		E.coli	IS 5887 (Part -1) IS 15185	Qualitative (Present /Absent)/ 250 ml
		Faecal Streptococci / Enterococci	IS 5887 (Part -2) IS 15185	Qualitative (Present /Absent)/ 250 ml
		Staphylococcus aureus	IS 5887 (Part -2) IS 15185	Qualitative (Present /Absent)/ 250 ml
		Pseudomonas aeruginosa	IS 13428	Qualitative (Present /Absent)/ 250 ml
2.	Packaged Natural Mineral Water	Yeast and Mould	IS 5403	Qualitative (Present /Absent)/ 250 ml
		Coliform Bacteria	IS 5401 (Part -1) IS 15185	Qualitative (Present /Absent)/ 250 ml
		E.coli	IS 5887 (Part 1) IS 15185	Qualitative (Present /Absent)/ 250 ml
		Faecal Streptococci/ Enterococci	IS 5887 (Part -2) IS 15186	Qualitative (Present /Absent)/ 250 ml
		Staphylococcus aureus	IS 5887 (Part -2)	Qualitative (Present /Absent)/ 250 ml
		Pseudomonas aeruginosa	IS 13428: 2005	Qualitative (Present /Absent)/ 250 ml
3.	Water for Medicinal Purpose (Used for Dialysis)	Aerobic Plate Count / Standard Plate Count	IS 5402	≥1cfu / ml

Ashok Kumar
Convenor

N. Venkateswaran
Program Director

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		Coliform Bacteria	IS 1622 APHA (22 nd Edition) 9221 (B&C), Page No.9-66-69	(<2 MPN to 1600 MPN)/ 100 ml ≥1.8 MPN/100 ml Qualitative (Present/Absent)/100 ml
		E. coli	IS 1622	Qualitative (Present/Absent)/ 100 ml
		Faecal Coliform	IS 1622 APHA (22 nd Edition) 9221 (B&C), Page No.9-66-69)	Qualitative (Present/Absent)/ 100 ml
		Yeast & Mould	IS 5403	Qualitative (Present/Absent)/ ml/100 ml/250ml
4.	Water for Processed Food Industry	Lipolytic bacterial count	IS 4251	≥ 1 cfu/ml
		Proteolytic bacterial count	IS 4251	≥ 1 cfu/ml
		Thermophilic bacterial count	IS 4251	≥ 1 cfu/ml
		Slime Forming Bacteria	IS 1622	Qualitative (Present or Absent) /drop
5.	Water for industrial purpose	Total Coliform	IS 1622 APHA (22 nd Edition) 9221 (B&C), Page No.9-66-69.	(<2 MPN to 1600 MPN)/ 100 ml ≥1.8 MPN/100 ml
			IS 1622 APHA (22 nd Edition) 9221 (D), Page No.9-74.	Qualitative (Present/Absent)/100 ml
		Faecal coliform	IS 1622 APHA (22 nd Edition) 9221 (E), Page No.9-74	Qualitative (Present/Absent)/100 ml (<2 MPN to 1600 MPN)/ 100 ml ≥1.8 MPN/100 ml

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.**

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CHEMICAL TESTING

I.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Particulate Matter (Size less than 10 µm) or PM10	IS 5182 (Part-23)	10 µg/m ³ to 10000 µg/m ³
		Particulate Matter (Size less than 2.5 µm) or PM _{2.5}	Gravimetric Method : CPCB Manual Volume – 1, Page 15	5.0 µg/m ³ to 500 µg/m ³
		Nitrogen Oxide (as NO ₂)	IS 5182 (Part-6) (Modified Jacob & Hochheiser Sodium Arsenite Method)	5.0 µg/m ³ to 740 µg/m ³
		Sulphur Dioxide (as SO ₂)	IS 5182 (Part-2) (Improved West & Gaeke Method)	5.0 µg/m ³ to 1000 µg/m ³
		Suspended Particulate Matter	IS 5182 (Part-4):	10.0 to 5000.0 µg/m ³
		Lead (as Pb)	IS 5182 (Part-22)	0.005 µg/m ³ to 100 µg/m ³
		Arsenic (As)	IS 5182 Part-22	2.0 ng/m ³ to 100 ng/m ³
		Ozone (as O ₃)	IS 5182 (Part-9):	20 µg/m ³ to 4000 µg/m ³
		Ammonia (as NH ₃)	CPCB Manual Volume – 1, Page -35	20 µg/ m ³ to 100 µg/ m ³
		Benzene	IS 5182(Part-11)	1.0 µg/m ³ to 2000 µg/m ³
		Benzo (α)Pyrene -(BaP) Particulate Phase only	IS 5182 (Part-12)	1.0 µg/m ³ to 1000 µg/m ³
		Volatile Organic Carbon (as Benzene)	IS 5182 (Part-11)	1.0 µg/m ³ to 1000 µg/m ³
		Carbon Monoxide (as CO)	IS 5182(Part-10)	2.0 mg/m ³ to 100.0 mg/m ³
		Total Hydrocarbon (as HC)	IS 5182(Part-17)	10 ppm to 1000 ppm

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2.	Stack Emission	Particulate Matter	IS 11255(Part-1)	10.0 mg/Nm ³ to 3000.0 mg/Nm ³
		Sulphur Dioxide	IS 11255 (Part-2)	5.0 mg/Nm ³ to 1000 mg/Nm ³
		Oxides of Nitrogen	IS 11255 (Part-7)	2.0 mg/Nm ³ to 500 mg/Nm ³
		Carbon Dioxide	IS 13270 (ORSAT METHOD)	5.0% to 15.0%
		Carbon Monoxide	IS 13270 (ORSAT Method) USEPA (Part-10)	0.2% to 5.0% 10 mg/m ³ to 1000 mg/m ³
		Oxygen	IS 13270 (ORSAT Method)	10.0% - 20.0%
		Cadmium	AGSS/CHEM/SOP/ST-01	0.1 µg/m ³ to 100 µg/m ³
		Iron (as Fe)		0.1 µg/m ³ to 100 µg/m ³
		Nickel (as Ni)		0.1 µg/m ³ to 100 µg/m ³
		Zinc (as Zn)		0.1 µg/m ³ to 100 µg/m ³
		Inorganic Lead (as Pb)	USEPA (Part 12)	1.0 mg/m ³ to 50 mg/m ³
		Flowrate	IS 11255(Part3)	3 m/s to 30 m/s
		Hydrocarbon(AsHC)	IS 5182(Part17)	10 ppm to 1000 ppm
		Hydrogen sulphide	IS 11255(Part4)	1 mg/Nm ³ to 100 mg/Nm ³
Ammonia	IS 11255(Part6)	5 mg/Nm ³ to 100 mg/Nm ³		
II.	POLLUTION & ENVIRONMENT			
1.	Liquid Effluent & Waste water	pH	APHA 4500-H ⁺ B, P-4-92, 22 nd Ed./ IS 3025(Part-11)	2.0 to 12 2.0 to 12
		Total Solids/Total Dissolved Solids	APHA 2540 B&C, P-2-64,65, 22 nd Ed./ IS 3025 (Part-16)	5.0 mg/L to 20,000 mg/L 6.0 mg/L to 20,000mg/L
		Total Suspended Solids	APHA 2540 D., P-2-66, 22 nd Ed./ IS 3025(Part-17)	2.0± 20,000mg/L 3.0± 20,000mg/L

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		Phosphorous (as P) / phosphate (as PO ₄ ,P ₂ O ₅)	APHA 4500 –P., P-4-148, 22 nd Ed./ IS 3025 (Part-31)	0.1 mg/L to 100 mg/L 0.1 mg/L to 100 mg/L
		Potassium (as K)	APHA 3500-K B. P-3-87, 22 nd Ed./ IS 3025 (Part-45)	1.0 mg/L to 500 mg/L 0.5 mg/L to 500mg/L
		Sodium (as Na)	APHA 3500-Na B. P-3-97, 22 nd Ed./ IS 3025 (Part-45)	1 mg/L to 2000 mg/L 0.5 mg/L to 2000 mg/L
		Bio chemical Oxygen Demand (5 days at 20°C) (3 days at 27°C)	APHA 5210 B. P-5-5,22 nd Ed. / IS 3025 (Part - 44)	2.0 mg/L to 10,000 mg/L 5.0 mg/L to 10,000 mg/L
		Chemical Oxygen Demand (as O ₂)	APHA 5220 B. P-5-17, 22 nd Ed./ IS 3025 (Part - 58)	4.0 mg/L to 10,000 mg/L 5.0 mg/L to 10,000 mg/L
		Oil & Grease	APHA 5520 B. P—5-40,22 nd Ed./ IS 3025 (Part-39)	4.0 mg/L to 1000 mg/L 3.0 mg/L to 1000 mg/L
		Phenol / Phenolic Compound	APHA 5530 C&D. P-5-47,22 nd Ed./ IS 3025 (Part - 43)	0.01 mg/L to 220 mg/L 0.02 mg/L to 220mg/L
		Conductivity	APHA – 2510 B. P-2-54, 22 nd Ed. / IS 3025 (Part-14)	1.0 µs/cm to 10,000 µs/cm 2.0 µs/cm to 10,000 µs/cm
		Total Residual Chlorine	APHA – 4500 Cl B. P-4-60, 22 nd Ed./ IS 3025 (Part-26)	0.1 mg/L to 1.0 mg/L 0.2 mg/L to 1.0 mg/L
		Ammonical Nitrogen	APHA – 4500 – NH ₃ C. P-4-112, 22 nd Ed	1.0 mg/L to 100 mg/L
		Total Kjelhdal Nitrogen	APHA 4500 – N. P-4-132, 22 nd Ed	1.0 mg/L to 100 mg/L
		Dissolved Oxygen	APHA 4500-O C. P-4-139, 22 nd Ed./ IS 3025 (Part-38)	0.1 mg/L to 10.0 mg/L 0.1 mg/L to 10.0 mg/L
		Fluoride	APHA 4500 F ⁻ D. P-4-87, 22 nd Ed. IS: 3025 (Part-60)	1.0 mg/L to 100 mg/L 0.5 mg/L to 100 mg/L
		Magnesium	APHA 3500-Mg B. P-3-84, 22 nd Ed./ IS: 3025 (Part-46)	0.5 mg/L to 2000 mg/L 1.0 mg/L to 2000 mg/L
		Total Solids	APHA 2540 B. P-2-64, IS: 3025 (Part-16)	5.0 mg/L to 20,000 mg/L 1.0 mg/L to 50,000 mg/L

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		Fixed Solids	APHA 2540 E. P-2-67 IS 3025 (Part-18)	5.0 mg/L to 10,000 mg/L 6.0 mg/L to 10,000 mg/L
		Volatile Solids	APHA 2540 E. P-2-67 IS 3025 (Part-18)	5.0 mg/L to 10,000 mg/L 6.0 mg/L to 10,000 mg/L
		Boron	APHA 4500 B IS 3025 (Part-57) AGSS/CHEM/SOP-ICPMS-03	0.25 mg/L to 10.0 mg/L 0.005 mg/L to 100 mg/L
		Chloride(as Cl ⁻)	APHA 4500-Cl ⁻ B. P-4-72, IS 3025 (Part-32)	2.5 mg/L to 20,000 mg/L 1.0 mg/L to 20,000 mg/L
		Nitrate (as N/as NO ₃)	IS 3025 (Part-34)	0.1 mg/L to 100.0 mg/L
		Silica (as SiO ₂)	APHA-4500-SiO ₂ -C. P-4-167, IS 3025 (Part-35)	0.2 mg/L to 100.0 mg/L 0.3 mg/L to 100.0 mg/L
		Free Ammonia	IS 3025 (Part-34)	1.0 mg/L to 100 mg/L
		Sulphide (as H ₂ S)	IS 3025 (Part-29)	0.1 mg/L to 20 mg/L
		Chromium(as Cr ⁺⁶)	APHA 3500-CrB. 3-69. IS 3025 (Part-52)	0.05 mg/L to 100.0 mg/L 0.1 mg/L to 100.0 mg/L
		Temperature	IS-3025(P-9) APHA-2550 B. P-2-69,	1 °C to 99 °C 1 °C to 99 °C
		Turbidity	IS 3025 (P-10) APHA-2130 B. P-2-13	1 NTU to 500 NTU 1 NTU to 500 NTU
		Total Hardness	IS 3025 (P-21) APHA-2340 C. P-2-44,	1 mg/L to 5000 mg/L 2 mg/L to 5000 mg/L
		Total Acidity	IS 3025(P-22) APHA-2310 B. P-2-31,	1 mg/L to 2000 mg/L 2 mg/L to 2000 mg/L
		Cyanide (as CN)	APHA 22 nd Ed. 4500CNF IS 3025 (P-27)	0.05 mg/L to 200 mg/L
		Calcium	IS 3025(P-40) APHA 3500 Ca B. P-3-67,	0.5 mg/L to 1000 mg/L 1.0 mg/L to 1000 mg/L
		Total Alkalinity	IS 3025(P-23) APHA 2320B. P-2 34, 22 nd Ed.	1 mg/L to 2000 mg/L 2 mg/L to 2000 mg/L
		Sulphate	IS 3025(P-24)	5 mg/L to 20000 mg/L

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		Trace Metal Elements		
		Cadmium	AGSS/CHEM/SOP-	0.001 mg/L to 100 mg/L
		Chromium	ICPMS/03	0.005 mg/L to 100 mg/L
		Manganese		0.005 mg/L to 100 mg/L
		Copper		0.005 mg/L to 100 mg/L
		Iron		0.01mg/L to 100 mg/L
		Nickel		0.005 mg/L to 100 mg/L
		Zinc		0.01mg/L to 100 mg/L
		Lead		0.005 mg/L to 100 mg/L
		Arsenic		0.005 mg/L to 100 mg/L
		Selenium		0.005 mg/L to 100 mg/L
		Silver		0.005 mg/L to 100 mg/L
		Aluminium		0.01mg/L to 100 mg/L
		Mercury		0.001 mg/L to 100 mg/L
		Antimony		0.001 mg/L to 100 mg/L
		Barium		0.005 mg/L to 100 mg/L
		Boron		0.005 mg/L to 100 mg/L
		Tin		0.005 mg/L to 100 mg/L
		Pesticides		
		Aldrin	AGSS/CHEM/SOP-	0.01µg/L to 1000 µg/L
		Dieldrin	GCMS/01	0.01µg/L to 1000 µg/L
		Endosulfan-I		0.01µg/L to 1000 µg/L
		Endosulfan-II		0.01µg/L to 1000 µg/L
		EndosulfanSulfate		0.01µg/L to 1000 µg/L
		O,p DDT		0.01µg/L to 1000 µg/L
		P,p DDD		0.01µg/L to 1000 µg/L
		P,p DDE		0.01µg/L to 1000 µg/L
		P,pDDT		0.01µg/L to 1000 µg/L
		Alpha HCH		0.01µg/L to 1000 µg/L
		Beta HCH		0.01µg/L to 1000 µg/L
		Gama HCH		0.01µg/L to 1000 µg/L
		Delta HCH		0.01µg/L to 1000 µg/L
		Chloropyrifos		0.01µg/L to 1000 µg/L

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		Ethion		0.01µg/L to 1000 µg/L
		Malathion		0.01µg/L to 1000 µg/L
		Parathion-methyl		0.01µg/L to 1000 µg/L
		Phorate		0.01µg/L to 1000 µg/L
		Alachlor		0.01µg/L to 1000 µg/L
		Butachlor		0.01µg/L to 1000 µg/L
		Monocrotophos		0.01µg/L to 1000 µg/L
		Polynuclear Aromatic hydrocarbons(PAH)		
		Naphthalene	AGSS/CHEM/SOP-GCMS/01	0.05 µg/L to 1000 µg/L
		Acenaphthylene		0.05 µg/L to 1000 µg/L
		Acenaphthene		0.05 µg/L to 1000 µg/L
		Fluorene		0.05 µg/L to 1000 µg/L
		Phenanthrene		0.05 µg/L to 1000 µg/L
		Anthracene		0.05 µg/L to 1000 µg/L
		Fluoranthene		0.05 µg/L to 1000 µg/L
		Pyrene		0.05 µg/L to 1000 µg/L
		Benzo(a)anthracene		0.05 µg/L to 1000 µg/L
		Chrysene		0.05 µg/L to 1000 µg/L
		Benzo (β) Fluoranthene		0.05 µg/L to 1000 µg/L
		Benzo(k)Fluoranthene		0.05 µg/L to 1000 µg/L
		Benzo(a)Pyrene		0.05 µg/L to 1000 µg/L
		Dibenzo (a,h)Anthracene		0.05 µg/L to 1000 µg/L
		Benzo(g,h,i)Peryleneb		0.05 µg/L to 1000 µg/L
		Poly chlorinated Biphenyls(PCBs)		
		2,3,4'-Trichlorobiphenyl	AGSS/CHEM/SOP-GCMS/01	0.05 µg/L to 1000 µg/L
		2,2',4,4'-Tetrachlorobiphenyl		0.05 µg/L to 1000 µg/L
		2,3',4,4',5,6' Hexachlorobiphenyl		0.05 µg/L to 1000 µg/L
		2,2',4,4,4',5',6-Hexachlorobiphenyl		0.05 µg/L to 1000 µg/L

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		2,2',4,4',5,6'-Heptachlorobiphenyl		0.05 µg/L to 1000 µg/L
III.	WATER			
1.	Water (Potable water, Surface Water, Ground Water, Borewell Water)	Colour/ Appearance	IS: 3025 (Part-4)	1.0 Hazen to 500.0 Hazen
		pH	APHA 4500-H ⁺ B. P-4-92, IS 3025 (Part-11)	2.0 to 12.0 2.0 to 12.0
		Turbidity	APHA 2130 B. P-2-13, IS: 3025 (p-10)	1 NTU to 500 NTU
		Temperature	APHA 2550 B. P-2-69, IS 3025 (Part -9)	-10.0 to 100.0°C -10.0 to 100.0°C
		Conductivity	APHA 2510 B. P-2-54, IS 3025 (Part-14)	1.0 µS/cm to 10,000 µS/cm 1.5 µS/cm to 10,000 µS/cm
		Silica (as SiO ₂)	APHA-4500-SiO ₂ -C. P-4-167, IS 3025 (Part-35)	0.2 mg/L to 10.0 mg/L 0.3 mg/L to 10.0 mg/L
		Total Solids / Total Dissolved Solids	APHA 2540 B & C. P-2-64-65, IS 3025 (Part-16)	1.0 mg/L to 20,000 mg/L 2.0 mg/L to 20,000 mg/L
		Dissolved Oxygen	APHA 4500-O C. P-4-139, IS 3025 (Part-38)	0.1 mg/L to 10.0 mg/L 0.5 mg/L to 10.0 mg/L
		Calcium(as Ca)	APHA 3500-CaB. P-3-67, IS 3025 (Part-40)	0.5 mg/L to 1000 mg/L 1 mg/L to 1000 mg/L
		Potassium(as K)	APHA 3500-K B. P-3-87, IS 3025 (Part-5)	1.0 mg/L to 1000 mg/L 0.5 mg/L to 1000 mg/L
		Phenol / Phenolic Compound	APHA 5530 C-D. P-5-47,49, 22 nd Ed./ IS 3025 (Part-43)	0.01 mg/L to 10 mg/L 0.05 mg/L to 10 mg/L
		Total Suspended Solids	APHA 2540D. P-2-66, 22 nd Ed./ IS 3025(Part-17)	5.0 mg/L to 2000 mg/L 1.0 mg/L to 2000 mg/L
		Oil & Grease	APHA 5520 B. P-5-40, 22 nd Ed./ IS 3025 (Part-39)	4.0 mg/L to 100.0 mg/L 3.0 mg/L to 100.0 mg/L
		Residual Free Chlorine	APHA – 4500 Cl B. P-4-60, 22 nd Ed./ IS 3025 (Part- 26)	0.1 mg/L to 1.0 mg/L 0.5 mg/L to 1.0mg/L

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		Ammonical Nitrogen	APHA -4500-NH ₃ C. P-4-112, 22 nd Ed.	2.0 mg/L to 100 mg/L
		Nitrate / Nitrate Nitrogen (N/NO ₃)	IS 3025 (Part- 34)	0.1 mg/L to 100.0 mg/L 0.5 mg/L to 100.0 mg/L
		Total Solids	APHA 2540 B. P-2-64, 22 nd Ed./ IS 3025 (Part-16)	5.0 mg/L to 20,000 mg/L 1.0 mg/L to 20,000 mg/L
		Fixed Solids	APHA 2540 E. P-2-67, 22 nd Ed./ IS 3025(Part-18)	5.0 mg/L to 10,000 mg/L 1.0 mg/L to 10,000 mg/L
		Volatile Solids	APHA 2540 E. P-2-67, 22 nd Ed./ IS:3025(Part-18)	5.0 mg/L to 10,000 mg/L 1.0 mg/L to 10,000 mg/L
		Ammonia (as Total NH ₃ -N)	IS 3025(Part-34)	0.5 mg/L to 100 mg/L
		Chloramines (as Cl ₂)	IS 3025 (Part-26)	1.0 mg/L to 50 mg/L
		Mineral oil	IS 3025 (Part-39)	0.1 mg/L to 1000 mg/L
		Sulphide (as H ₂ S)	IS 3025 (Part-29)	0.05 mg/L to 20mg/L
		Chromium (as Cr ⁺⁶)	APHA 3500-Cr B. P-3-69, 22 nd Ed./ IS 3025 (Part-52)	0.05 mg/L to 0.5 mg/L 1.0 mg/L to 0.5 mg/L
		Boron (as B)	IS 3025(P-57) APHA 4500 BB. P-4-25,	0.25 mg/L to 100.0mg/L 0.01 mg/L to 100.0mg/L
		Chloride (asCl)	IS 3025(P-32) APHA 4500-Cl-B. P-4-72,	2 mg/L to 20,000 mg/L 1 mg/L to 20,000 mg/L
		Magnesium(asMg),	IS 3025(P-46) APHA 3500-MgB. P-3-84,	0.5 mg/L to 2500 mg/L 1.0 mg/L to 2500 mg/L
		Sulphate(asSO ₄),	IS 3025(P-24)	1 mg/L to 5000 mg/L
		Total Hardness	IS 3025(Part21) APHA 2340 C. P-2-44,	1 mg/L to 5000mg/L 2 mg/L to 5000 mg/L
		Cyanide (as CN)	APHA 4500 CN-(K). P-4-51,	Qualitative (Present/Absent)
		Sodium (as Na)	IS 3025(P-45) APHA 3500-Na B. P-3-97,	1.0 mg/L to 2000 mg/L 2.0 mg/L to 2000 mg/L
		Oxygen Absorption in 4 hrs	IS 3025(Part63)	0.1 mg/L to 100mg/L
		Total Acidity	IS 3025(Part22)	1.0 mg/L to 500 mg/L
		Phosphorus(as P/PO ₄)	APHA-4500 P. P-4-148, 22 nd Ed. IS 3025(Part31)	0.05 mg/L to 100 mg/L

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		Salinity	APHA-2520 (B).	1.0 mg/L to 10000 mg/L
		Total Kjeldhal Nitrogen (as N)	APHA-4500 N _{org} (B) &(C).P-4-132, IS 3025(Part34)	1.0 mg/L to 1000 mg/L
		Nitrite(as NO ₂)	IS 3025(Part34) APHA 4500 NO ₂ -B:22 nd Edition	0.1 mg/L to 100 mg/L 0.5 mg/L to 100 mg/L
		Chemical Oxygen Demand	IS 3025 (Part58)	1.0 mg/L to 1000 mg/L
		Biological Oxygen Demand (BOD)	IS 3025 (Part44) APHA-5210 B. P-5-5 22 nd Ed.	2.0 mg/L to 1000 mg/L 2.0 mg/L to 1000 mg/L
		CO ₂ free/dissolved	APHA-4500 CO ₂ -C. P-4-31,	1.0 mg/L to 50 mg/L
		Bicarbonates (as CaCO ₃)	IS 3025 (Part51)	1 mg/L to 500 mg/L
		Carbonates(as CaCO ₃)	IS 3025 (Part51)	1 mg/L to 500 mg/L
2.	Packaged Drinking Water/Packaged Natural Mineral Water	Colour (True colour unit)	IS 3025(P-4) APHA2120 B	1 Hazen to 500.0 Hazen 1 Hazen to 500.0Hazen
		Turbidity	IS 3025(P-1) APHA 2130 B.P-2-13,	1 NTU to 500.0 NTU 1 NTU to 500.0NTU
		Total dissolved Solids	IS 3025(P-16) APHA 2540 B,C. P-2-64,65	5.0 mg/L to 10,000 mg/L
		pH	IS 3025(P-11)/ APHA 4500-H ⁺ B. P-4-92,	2.0 to 12.0 2.0 to 12.0
		Manganese	IS 3025 (P-59)	0.1 mg/ to 500 mg/L
		Nitrate	IS 3025 (P-34)	0.5 mg/L to 20.0 mg/L
		Nitrite	IS 3025(Part34) APHA 4500 NO ₂ (B)	0.01 mg/L to 1mg/L 0.5 mg/L to 1mg/L
		Fluoride	IS 3025(P-60) (By Colour Comparison) / APHA 4500-FD. P-4-83.	0.02 mg/L to 50.0 mg/L 0.02 mg/L to 1.0 mg/L
		Cyanide	APHA 4500 CN(K). P-4-51,	Qualitative (present/Absent)
		Chloride	IS 3025 (Part32) APHA-4500 Cl-(B). P-4-72,	2.5 mg/L to 1000 mg/l

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		Sulphate	IS 3025 (P-24) APHA 4500 SO ₄ E	5 mg/L to 1000 mg/L 5 mg/L to 1000 mg/L
		Alkalinity	IS 3025(P-23)	1.0 mg/L to 1,000 mg/L
		Calcium	IS 3025(P-40)/ APHA3500-CaB. P-3-67.	0.5 mg/L to 5000 mg/L 1.0 mg/L to 5000 mg/L
		Magnesium	IS 3025(P-46) APHA 3500 Mg-(B). P-3-84	0.5 mg/L to 5000 mg/L 1.0 mg/L to 5000 mg/L
		Sodium	IS 3025 (Part45) APHA3500 Na-(B). P-3-97	1.0 mg/L to 1000 mg/L 0.5 mg/L to 1000 mg/L
		Residual Free Chlorine	IS 3025 (P-26) APHA-4500 Cl B. P-4-60, 22ndEd.	0.1 mg/L to 10mg/L 0.5 mg/L to 10 mg/L
		Phenolic Compounds (as C ₆ H ₅ OH)	IS 3025 (P-43)/APHA 5530 C.D. P-5-47,49, 22ndEd.	0.5 mg/L to 10 mg/L 0.01 mg/L to 10 mg/L
		Mineral Oil	IS 3025 (P-39) Amm. No-2, 2013	0.1 mg/L to 10 mg/L
		Sulphide (as H ₂ S)	IS: 3025 (P-29)	0.05 mg/L to 20mg/L
		Borates	Annex H of IS 13428 APHA-3125BB P-4-25, 22 nd Ed	0.1 mg/L to 100 mg/L
		Barium	IS 13428 (Annex. F)/ IS 15302-2004/ APHA-3125(B) :22nd Ed	0.01 mg/L to 40mg/l 0.02 mg/L to 40 mg/L
3.	Water For Construction	pH Value at 25 ^o C	IS 3025 (P-11)	2 to 12
		Organic Solids	IS 3025 (P-18)	1 mg/L to 1000 mg/L
		Inorganic Solids	APHA 2510 B. P-2-54, IS 3025 (Part-14)	1 mg/L to 10000 mg/L
		Sulphates as SO ₄	APHA-4500-SiO ₂ -C. P-4-167, IS 3025 (Part-35)	1 mg/L to 5000 mg/L
		Chlorides as Cl	IS 3025 (P-32)	1 mg/L to 5000 mg/L
		Suspended Matter	IS 3025 (P-17)	1 mg/L to 5000 mg/L
		a) To neutralize 100ml of sample water using phenolphthalein as an	IS 3025 (P-22) IS 3025 (Part 23)	0.1 mg/L to 50 mg/L

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		b) To neutralize 100ml of sample water using Mixed indicator using.	IS 3025 (Part 23)	0.1 ml to 50 ml
IV.	FOOD & AGRICULTURAL PRODUCTS			
1.	Herbs, Spices & Condiments (Mixed, Whole, Ground mixed & Oleoresins, Caraway, Cardamom, Large Cardamom, Chillies, Cinnamon, Cassia, Cloves, Coriander, Cumin, Cumin Black, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Pepper Black, Poppy, Saffron, Turmeric, Curry Powder, Mixed Masala, Aniseed, Ajawain, Dried Mango Slices, Dried Mango Powder, Pepper White, Dried Garlic, Dehydrated Onion, Asafoetida, Tamarind, Herbs)	Moisture	IS 1797 FSSAI Lab Manual-10	0.5% to 30%
Total Ash		IS 1797 FSSAI Lab Manual- 10	0.1% to 10%	
Acid Insoluble Ash		IS 1797 FSSAI Lab Manual- 10	0.05% to 2%	
Water Insoluble Ash		IS 1797	0.1% to 10%	
Non -Volatile Ether Extract		IS 1797 FSSAI Lab Manual- 10	8.0% to 30%	
Alcohol Soluble Extract		IS 1797 FSSAI Lab Manual- 10	0.5% to 50%	
Cold Water Soluble Extract		IS 1797 FSSAI Lab Manual- 10	0.5% to 50%	
Chromate Test		IS 3576 FSSAI Lab Manual- 10	Qualitative	
Curcumin Content		IS 10925 FSSAI Lab Manual- 10	1.0% to 10%	
Acidity		IS 13242	0.1% to 50%	
Total Nitrogen		FSSAI Lab Manual-10 IS 7219	0.1% to 10%	
Moisture & Volatile Matter		IS 5453(P-2)	0.1% to 40%	

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2.	Milk & Dairy Products (Edible dairy ingredient - Milk, Mixed Milk, Standardized Milk, Recombined Milk, Toned Milk, Double Toned Milk, Skimmed Milk, Full Cream Milk, Evaporated Milk, Sweetened Condensed, Milk, Cream, Malai, Curd, Chhena, Cheese, Cream Cheese, Milk Powder, Infant Milk Food, Butter, Desi Ghee, Butter Oil, Chakka, Shrikhand, Yoghurts)	Moisture	IS 11623 FSSAI Lab Manual- 1	0.5% to 90%
		Titration Acidity	IS 1165 FSSAI Lab Manual- 1	0.1% to 10%
		Total Ash	IS 1165 FSSAI Lab Manual- 1	1% to 10%
		Acidity of extracted fat	IS 548 IS 11721	0.5% to 6%
		Fat	IS 1479 (P-1&2) FSSAI Lab Manual- 1	1% to 80%
		Protein	IS 7219 FSSAI Lab Manual- 1	1% to 40%
		RM Value	IS 548 (P-1):1964 FSSAI Lab Manual- 1	20% to 36%
		Total Solids	IS 11623 FSSAI Lab Manual- 1	80% to 95%
		Sucrose	IS 4079: FSSAI Lab Manual:1	1% to 50%
		pH	IS 1000 IS 1479(P-1) AOAC 943.02	2 to 12
		Total Milk Solids	IS 1166	5% to 40%
		Total Nitrogen Chloride	IS 1479 (P-2), IS 7219 IS 1479(P-2)	0.1% to 10% 0.01% to 2.0%
		3.	Alcoholic Beverages (Whisky, Wines, Rums, Vodka, Beer)	Residue on evaporation
Total Acidity (as Tartaric acid)	IS 3752 FSSAI Lab Manual- 16			1 to 30 gm/100L
Ethyl Alcohol content	IS 3752 FSSAI Lab Manual- 16			0.1% to 70%
Esters	IS 3752 FSSAI Lab Manual- 16			0.05 to 200 gm/100L
Aldehydes	IS 3752 FSSAI Lab Manual- 16			0.50 to 50 gm/100L

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		Volatile Acidity (as Acetic acid)	IS 3752 FSSAI Lab Manual- 16	0.1 to 20 gm/100L
		Fixed Acidity	IS 3752	0.2 to 10gm/100L
		Ash Content	IS 3752	0.01% to 1%
		Methyl Alcohol	IS 3752 IS 3865 FSSAI Manual-13	0 to 50gm/100L
		Furfural	IS 3752 AOAC 20 th edition FSSAI Manual 13	1 to 50gm/100 L
		pH	IS 3865 IS 14398	2 to 12
		Higher Alcohols as amyl alcohol	IS 3752 AOAC 20 th edition FSSAI Manual- 13	5 to 500gm/100L
4.	Edible oils & fats (Coconut Oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape Seed Oil, Mustard Oil, Olive Oil, Poppy Seed Oil, Safflower Seed Oil, Taramira Oil, Til Oil, Niger Seed Oil, Soyabean Oil, Maize Oil, Refined Vegetable Oil, Almond Oil, Water Melon Oil, Palm Oil, Palmolein Oil, Palm Kernel Oil, Sunflower Seed Oil, Rice Bran Oil, Blended Edible	Specific gravity@30°C	IS: 548 (Part-1) FSSAI Lab Manual- 2	0.860 to 0.999
		Acid value	IS: 548 (Part-1) FSSAI Lab Manual- 2	0.1% to 20%
		Iodine Value	IS: 548 (Part-1) FSSAI Lab Manual- 2	50 to 250
		Saponification Value	IS: 548 (Part-1) FSSAI Lab Manual- 2	80 to 300
		Moisture & Insoluble impurities	IS:548 (Part-I) FSSAI Lab Manual- 2	0.1% to 10%
		Reichert Meissel (RM value)	IS 548 (Part-I) FSSAI Lab Manual- 2	1 to 50
		Refractive index at 40°C	IS 548 (Part-I) FSSAI Lab Manual- 2	1.4450 to 1.480
		Un-saponifiable matter	IS 548 (Part-I) FSSAI Lab Manual- 2	0.01 to 10(%/wt.)
		B.R Reading	IS 3508 IS 548 (P-I)	20 to 75
		Fat	IS 4079	1.0 to 99.0%
		Polensky Value	IS 548(P-1) FSSAI LabManual-2	1.0 to 20.0

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	Vegetable Oil, Partially Hydrogenated Oil, Beef Fat, Mutton Fat, Goat Fat, Cocoa Butter, Refined Sal seed Fat, Kokum Fat, Mango Kernel Fat, Dhupa Fat, Phulwara Fat, Ghee, Cooking Fats)	Peroxide value	IS 548 (Part1) AOAC 20 th Edn. FSSAI Lab Manual-2	0.1 meq/kg to 10 meq/kg
		Moisture & Volatile Matter	IS 548 (P-1)	0.1% to 20%
		FFA	IS 548 (P-1)	0.1% to 50.0%
5.	(Cereals, Pulses & Cereals Products) (Atta, Maida, Suji, Besan, Wheat, Maize, Jawar, Bajra, Rice, Masur Whole, Urd Whole, Moong Whole, Chana Whole, Arhar Dal, Moong Dal, Urd Dal, Chana Dal, Masur Dal, Cornflour, Corn Flakes, Custard Powder, Macaroni, Pasta, Spaghetti, Rolled Oats, Soya Flour, Groundnut Flour, Sesame Flour,	Moisture	IS 1009 FSSAI Lab Manual- 3	0.5% to 10%
		Total Ash	IS 1009 FSSAI Lab Manual-3	1.0% to 10%
		Protein	IS 7219 IS 4684 FSSAI Lab Manual- 3	1% to 40%
		Gluten	IS 1009 FSSAI Lab Manual- 3	5% to 20%
		Alcoholic Acidity	IS 1009 FSSAI Lab Manual- 3	0.1% to 20%
		Acid Insoluble Ash	IS 1009 FSSAI Lab Manual- 3	0.1% to 2%
		Fat	IS 4684 AOAC (20 th Edition)	0.05% to 30%
		Total Ash excluding NaCl	IS 1158 FSSAI Manual-3 AOAC 20 th Edition IS 4706(P-2)	0% to 20%
		Total Solids In Gruel	IS 1485	1% to 10%
		Acid value of extracted fat	IS 4684 AOAC 20 th edition FSSAI Manual-3	0.1% to 10%
		Mass of 1000 grain	IS 4333(Part4)	1% to 50%

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	Coconut Flour, Cotton Seed Flour, Breakfast cereals)	pH of water extract	IS 4706 AOAC-20 th edition	3 to 10
		Total Solids	IS 1483 FSSAI Lab manual 3 AOAC 20 th Edition	60% to 95%
		Free Acidity	IS 4706 (P-2) IS 1485	1.01 ml to 14.0 ml
		FFA(as Oleic acid)	IS 548 (P-1)	0.01% to 50%
		Reducing Sugar	IS 6287	0.1%to 50%
		Energy(Calorific value)	By Calculation	50 to 900 Kcal/100gm
		Starch	IS 4706 (P-2)	5% to 95%
		Carbohydrate	IS 1656	20% to 80%
6.	Honey & Honey Products	Moisture	IS 4941 (Part-2) FSSAI Lab Manual- 4	0.1% to 40%
		Total Ash	IS 4941 (Part -2) FSSAI Lab Manual- 4	0.1% to 10%
		Acidity	IS 4941 (Part -2) FSSAI Lab Manual- 4	0.1% to 10%
		Specific Gravity at 27°C	IS 4941 (Part -2) FSSAI Lab Manual- 4	0.801 to 1.5
		Total Reducing Sugars	IS 4941 (Part -2) FSSAI Lab Manual- 4	0.1% to 90%
		Sucrose	IS 4941 (Part -2) FSSAI Lab Manual- 4	0.1% to 10%
		Fructose-Glucose Ratio	IS 4941 FSSAI Lab Manual- 4	0.5 to 2.0
		Fiehe's Test	IS 4941 (Part -2)	Present/Absent
		HMF	IS 4941 (Part -2)	0.1 mg/kg to 100 mg/kg
7.	Coffee & Cocoa products (Chocolates, Cocoa Powder, Milk Shake Powder, Instant Drinks Powder, Instant Beverages)	Moisture	IS 1164 FSSAI Lab Manual- 4	0.5% to 30%
		Total Ash	IS 3633 IS:1164 FSSAI Lab Manual- 4	0.1% to 15%
		Acid Insoluble Ash	IS 3633 IS:1164 FSSAI Lab Manual- 4	0.01% to 2%
		Alkalinity of total Ash	IS 1164 FSSAI Lab Manual- 4	1% to 10%

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		Water Soluble Ash	IS 3633 FSSAI Lab Manual- 4	0.5% to 40%
		Alkalinity of water soluble ash	IS 3077 AOAC 20 th Edition FSSAI Manual-4	0.1 ml to 10 ml
		Total Fat (petroleum Ether Extract)	IS 3077 AOAC 20 th Edition	0.2% to 20%
		Cocoa Butter	FSSAI Manual-4	0.1% to 30%
		Solubility in boiling water	IS 2791 IS 3309 FSSAI Manual-4	Qualitative
		Solubility in cold water	IS 2791	Qualitative
		Aqueous Extract	IS 13862 IS 3077 IS 612 AOAC 20 th Edition FSSAI Manual- 4	0.1% to 90%
		Total Sugar	IS 6762	0.1% to 80%
		Alcoholic Insoluble Residue	IS 2962	1% to 50%
8.	Tea & Tea Products	Moisture	IS 1164 FSSAI Lab Manual- 4	0.5% to 80%
		Total Ash	IS 3633 FSSAI Lab Manual- 4	0.1% to 15%
		Acid Insoluble Ash	IS 3633 FSSAI Lab Manual- 4	0.1% to 2%
		Alkalinity of total Ash	IS 1164 FSSAI Lab Manual- 4	1% to 10%
		Water Soluble Ash of total ash	IS 3633 FSSAI Lab Manual- 4	1% to 80%
		Free Acidity	IS 4706	1.0% to 4.0%
		Alkalinity of Water Soluble Ash	IS 13856 FSSAI Manual 4	0.1% to 5%
		Water Extract	IS 13862 FSSAI Manual 4	0.2% to 90%
		Water Insoluble Ash	IS 13855	0.1% to 5%
9.	Bakery & Confectionary Products Baked	Moisture	IS 12711 IS 1011 FSSAI Lab Manual- 4	0.5% to 50%

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	products perishable & non-perishable, desserts, Cakes, Biscuit, Bread, SujiRusk, Pastries, Puffs, Cereal bars, Fudge, Rolls, Buns, Puddings, Milk Toffee, Butter Toffee, Lozenges, Chewing Gum, Bubble Gum, Chocolate, Edible Ices)	Total Ash	IS 12711 FSSAI Lab Manual- 4	0.5% to 10%
		Acid Insoluble Ash	IS 12711 IS 1011 FSSAI Lab Manual- 4	0.1% to 5%
		Sulphated Ash	IS 12711 FSSAI Lab Manual- 4	0.5% to 10%
		Sucrose	IS 6287 FSSAI Lab Manual- 4	1% to 90%
		pH	IS 12711	2.0 to 13
		Acidity of extracted Fat	IS 12711 IS 1011	0.1% to 0.5%
		Total Solids	IS 12711	0.5% to 95%
		Fat	IS 12711 FSSAI Lab Manual- 4	1% to 40%
		Alcoholic Acidity	IS 12711	0.5% to 5%
		Reducing Sugar	IS 6287 FSSAI Lab Manual- 4	11% to 30%
		Peroxide value	IS 3508	0.2 meq/kg to 20 meq/kg
		Protein	FSSAI Lab Manual4	1% to 80%
		Starch	FSSAI Manual-4	0.1% to 90%
		Test for Rancidity	FSSAI Manual- 4	Qualitative
		Milk Solid not Fat	FSSAI Manual-4	1.0% to 10%
		Total Protein	IS 7219 AOAC (20 th Edition) FSSAI Manual-4	0.5% to 50%
		Sodium	AOAC 19thEd /Flame Photometer/ AOAC 20 th edition	1 to 2000 mg/100gm
Total Ash excluding NaCl	IS 1485 AOAC 20 th edition	1.0% to 90%		
Nitrogen	IS 7219	1.0 to 50g/100gm		
10.	Fruit & Vegetable Products (Processed fruit & Vegetable products - Canned Fruits,	Acidity	IS 2860 FSSAI Lab Manual- 5	0.1% to 40%
		Total Soluble Solids	IS 2860 FSSAI Lab Manual- 5	0.1% to 80%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Perishable restaurant food, concentrates, Fruit Juices, Vegetable Juices, Mango Pulp/Puree, Tomato Puree/Paste, Soup Powders, Tamarind Pulp/Puree, Fruit Bar, Synthetic Syrup, Murabba, Tomato Ketchup, Tomato Sauce, Soya Sauce, Jam, Fruit Jelly, Fruit Cheese, Mango Chutney, Pickles, Vinegar	Total Ash	IS 3500 AOAC 20 th edition FSSAI Lab Manual 5	0.5% to 10%
		pH	FSSAI Lab Manual 5	1 to 14
		Protein	IS 7219 AOAC 20 th edition FSSAI Lab Manual 5	0.5% to 30%
		Salt as NaCl	IS 1797 IS 2860 AOAC 20 th edition	0.1% to 15%
		Sucrose	IS 3547 AOAC: 20 th edition	1% to 70%
		Acid Insoluble Ash	IS 3500 FSSAI Lab Manual 5	0.1% to 5%
		Total solids	IS 3882 FSSAI Lab Manual 5	1% to 90%
		Specific Gravity	IS 2860	0.5 to 2.0
		Calcium	IS 13433 (P-2) IS 4285	1 to 1000 mg/100 gm
	Reducing Sugar	IS 8846	1% to 50%	
11.	Snacks, Convenience Products – (Burgers, Sandwiches, fresh snacks, extruded snacks, shev, chivda, type of farsan, wafers, bakarwati, Idli mix, Sambhar mix, Corn Snacks, Popcorn, Potato Crisps, Chips)	Moisture	IS 15271	0.5% to 10%
		Total Ash	IS 15271	0.1% to 25%
		Acid Insoluble Ash	IS 15271	0.05% to 2%
		Acidity of extracted fat	IS 15271	0.05% to 5%
		Fat	IS 15271	0.5% to 50%
		Peroxide Value	IS 15271	0.05 mg/kg to 50 mg/kg
		Salt as NaCl	IS 2860 AOAC 20 th edition	0.5% to 20%
		pH	IS 4706	2 to 12
		Cold Water Solubles	IS 1317	0.1% to 5%

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12.	Fruit juices & Concent Rates (Soft drinks, fruit drinks, carbonated & non-carbonated beverages & sherbets, squashes, soft drink concentrates)	Acidity	IS 2860 AOAC 20 th Edition FSSAI Lab Manual 5	0.01% to 5%
		Total Ash	IS 3500	0.05% to 20%
		Salt	IS 2860 FSSAI Lab Manual 5	0.05% to 20%
		pH	IS 2860 FSSAI Lab Manual 5	2 to 12
		Acid Insoluble Ash	IS 3500 FSSAI Lab Manual 5	0.1% to 10%
		Carbohydrates	IS 1656 AOAC 20 th Edition	5.0% to 95%
		Energy, Kcal	By Calculation AOAC, 20 th Edition	5 to 900 Kcal/100gm
		Salt as NaCl	IS 1797 AOAC 20 th edition	1mg/100 g & above
13.	Meat & Meat Products, fish and fish products, Sea food Poultry & poultry products	Reducing Sugar	FSSAI Lab Manual 4	10% to 90%
		Moisture	AOAC 20 th Edition IS 5960 ISO : 1442 FSSAI Manual –6	0.1% to 80%
		Salt as NaCl	IS 1797 IS 5960 ISO : 1841 (20 th Edition) FSSAI Manual –6	0.05% to 50%
		Total ash	AOAC (20 th Edition), IS 5960 (Part 2), ISO 936	0.5% to 20%
		Nitrogen (Protein)	AOAC (20 th Edition) IS 5960 ISO : 937 FSSAI Manual-6	0.5% to 25%
		Carbohydrate	IS 1656	1% to 99%
		Energy	By Calculation	5 to 900 Kcal/100gm
		Acid Insoluble Ash	IS 9808	0.01% to 5.0%
		Chloride	IS 5960	0.1% to 25%
		Free Fat	IS 5960	0.1% to 15%
		Total Fat	IS 5960	0.1% to 40%
		Protein	IS 7219	1.0% to 95%

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IV.	RESIDUES IN FOOD				
1.	Herbs, Spices & Condiments (Mixed, Whole, Ground mixed & Oleoresins, Caraway, Cardamom, Large Cardamom, Chillies, Cinnamon, Cassia, Cloves, Coriander, Cumin, Cumin Black, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Pepper Black, Poppy, Saffron, Turmeric, Curry Powder, Mixed Masala, Aniseed, Ajawain, Dried Mango Slices, Dried Mango Powder, Pepper White, Dried Garlic, Dehydrated Onion, Asafoetida, Tamarind, Herbs)	Heavy Metals (Trace Metal Elements)			
		Lead	AGSS/CHEM/SOP-ICPMS/05	0.05 mg/kg to 100 mg/kg	
		Copper		0.05 mg/kg to 100 mg/kg	
		Arsenic		0.05 mg/kg to 100 mg/kg	
		Mercury		0.05 mg/kg to 100 mg/kg	
		Cadmium		0.05 mg/kg to 100 mg/kg	
		Tin		0.05 mg/kg to 100 mg/kg	
		Zinc		0.05 mg/kg to 100 mg/kg	
		Iron		0.05 mg/kg to 100 mg/kg	
2.	Milk & Dairy Products Edible dairy ingredient - Milk,	HeavyMetals (Trace Metal Element)			
		Lead	AGSS/CHEM/SOP-ICPMS /06	0.01 mg/kg to 100 mg/kg	
		Arsenic		0.01 mg/kg to 100 mg/kg	
		Cadmium		0.01 mg/kg to 100 mg/kg	

Ashok Kumar
Convenor

N. Venkateswaran
Program Director

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	Mixed Milk, Standardized Milk, Recombined Milk, Toned Milk, Double Toned Milk, Skimmed Milk, Full Cream Milk, Evaporated Milk, Sweetened Condensed, Milk, Cream, Malai, Curd, Chhena, Cheese, Cream Cheese, Milk Powder, Infant Milk Food, Butter, Desi Ghee, Butter Oil, Chakka, Shrikhand, Yoghurts)	Mercury		0.01 mg/kg to 100 mg/kg
		Tin		0.1 mg/kg to 100 mg/kg
		Copper		0.1 mg/kg to 100 mg/kg
		Zinc		0.1 mg/kg to 100 mg/kg
		Cobalt		0.01 mg/kg to 100 mg/kg
		Chromium		0.01 mg/kg to 100 mg/kg
		Iron		0.1 mg/kg to 100 mg/kg
		Manganese		0.1 mg/kg to 100 mg/kg
		Nickel		0.01 mg/kg to 100 mg/kg
		Selenium		0.1 mg/kg to 100 mg/kg
		Silver		0.1 mg/kg to 100 mg/kg
3.	Alcoholic Beverages (Whisky, Wines, Rums, Vodka, Beer)	Heavy Metals (Trace Metal Elements)		
		Copper	AGSS/CHEM/SOP-ICPMS/07	0.05 mg/L to 1000 mg/L
		Arsenic		0.05 mg/L to 1000 mg/L
		Cadmium		0.05 mg/L to 1000 mg/L
		Mercury		0.05 mg/L to 1000 mg/L
		Lead		0.05 mg/L to 1000 mg/L
		Iron		0.05 mg/L to 1000 mg/L
		Tin		0.05 mg/L to 1000 mg/L
Zinc		0.05 mg/L to 1000 mg/L		
4.	Edible oils & fats Coconut Oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil,	Heavy Metals (Trace Metal Elements)		
		Nickel	AGSS/CHEM/SOP-ICPMS/08	0.1 mg/kg to 100 mg/kg
		Arsenic		0.1 mg/kg to 100 mg/kg
		Cadmium		0.1 mg/kg to 100 mg/kg

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	Mahua Oil, Rape Seed Oil, Mustard Oil, Olive Oil, Poppy Seed Oil, Safflower Seed Oil, Taramira Oil, Til Oil, Niger Seed Oil, Soyabean Oil, Maize Oil, Refined Vegetable Oil, Almond Oil, Water Melon Oil, Palm Oil, Palmolein Oil, Palm Kernel Oil, Sunflower Seed Oil, Rice Bran Oil, Blended Edible Vegetable Oil, Partially Hydrogenated Oil, Beef Fat, Mutton Fat, Goat Fat, Cocoa Butter, Refined Sal seed Fat, Kokum Fat, Mango Kernel Fat, Dhupa Fat, Phulwara Fat, Ghee, Cooking Fats)	Copper		0.1 mg/kg to 100 mg/kg
		Lead		0.1 mg/kg to 100 mg/kg
		Mercury		0.1 mg/kg to 100 mg/kg
		Tin		0.1 mg/kg to 100 mg/kg
		Zinc		0.1 mg/kg to 100 mg/kg
5.	Cereals, Pulses & Cereals-Products (Atta, Maida, Suji, Besan, Wheat, Maize, Jawar,	Heavy Metals (Trace Metal Elements)		
		Lead	AGSS/CHEM/SOP-ICP-MS/09	0.01 mg/kg to 100 mg/kg
		Arsenic		0.01 mg/kg to 100 mg/kg
		Cadmium		0.01 mg/kg to 100 mg/kg

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	Bajra, Rice, Masur Whole, Urd Whole, Moong Whole, Chana Whole, Arhar Dal, Moong Dal, Urd Dal, Chana Dal, Masur Dal, Cornflour, Corn Flakes, Custard Powder, Macaroni, Pasta, Spaghetti, Rolled Oats, Soya Flour, Groundnut Flour, Sesame Flour, Coconut Flour, Cotton Seed Flour, Breakfast cereals)	Mercury		0.01 mg/kg to 100 mg/kg		
		Copper		0.01 mg/kg to 100 mg/kg		
		Tin		0.01 mg/kg to 100 mg/kg		
		Zinc		0.01 mg/kg to 100 mg/kg		
		Iron		0.01 mg/kg to 100 mg/kg		
		Cobalt		0.01 mg/kg to 100 mg/kg		
		Chromium		0.01 mg/kg to 100 mg/kg		
		Manganese		0.01 mg/kg to 100 mg/kg		
		Nickel		0.01 mg/kg to 100 mg/kg		
		Selenium		0.01 mg/kg to 100 mg/kg		
		Silver		0.01 mg/kg to 100 mg/kg		
		6.	Honey & Honey Products	Heavy Metals(Trace Metal Elements)		
				Copper	AGSS/CHEM/SOP/ICP-MS/14	0.05 mg/kg to 100 mg/kg
		Arsenic		0.05 mg/kg to 100 mg/kg		
		Cadmium		0.05 mg/kg to 100 mg/kg		
		Tin		0.05 mg/kg to 100 mg/kg		
		Mercury		0.05 mg/kg to 100 mg/kg		
		Lead		0.05 mg/kg to 100 mg/kg		
		Zinc		0.05 mg/kg to 100 mg/kg		
		Chromium		0.05 mg/kg to 100 mg/kg		
		Iron		0.05 mg/kg to 100 mg/kg		
		Manganese		0.05 mg/kg to 100 mg/kg		
		Nickel		0.05 mg/kg to 100 mg/kg		
		Selenium		0.05 mg/kg to 100 mg/kg		

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7.	Tea & Tea Products	Silver		0.05 mg/kg to 100 mg/kg
		Heavy Metal(Trace Metal Elements)		
		Lead	AGSS/CHEM/SOP-ICP-MS/10	0.05 mg/kg to 1000 mg/kg
		Copper		0.05 mg/kg to 1000 mg/kg
		Arsenic		0.05 mg/kg to 1000 mg/kg
		Cadmium		0.05 mg/kg to 1000 mg/kg
		Mercury		0.05 mg/kg to 1000 mg/kg
Zinc	0.05 mg/kg to 1000 mg/kg			
Tin	0.05 mg/kg to 1000 mg/kg			
8.	Fruit & Vegetable Products (Processed fruit & Vegetable products - Canned Fruits, Perishable restaurant food, concentrates, Fruit Juices, Vegetable Juices, Mango Pulp/Puree, Tomato Puree/Paste, Soup Powders, Tamarind Pulp/Puree, Fruit Bar, Synthetic Syrup, Murabba, Tomato Ketchup, Tomato Sauce, Soya Sauce, Jam, Fruit Jelly, Fruit	Heavy Metals (Trace Metal Elements)		
		Cadmium	AGSS/CHEM/SOP-ICP-MS/11	0.05 mg/kg to 100 mg/kg
		Copper		0.05 mg/kg to 100 mg/kg
		Lead		0.05 mg/kg to 100 mg/kg
		Arsenic		0.05 mg/kg to 100 mg/kg
		Tin		0.05 mg/kg to 100 mg/kg
		Zinc		0.05 mg/kg to 100 mg/kg
		Mercury		0.05 mg/kg to 100 mg/kg
		Aluminium		0.05 mg/kg to 100 mg/kg
		Barium		0.05 mg/kg to 100 mg/kg
		Boron		0.05 mg/kg to 100 mg/kg
		Cobalt		0.05 mg/kg to 100 mg/kg
		Chromium		0.05 mg/kg to 100 mg/kg
		Iron		0.05 mg/kg to 100 mg/kg
		Manganese		0.05 mg/kg to 100 mg/kg
		Nickel		0.05 mg/kg to 100 mg/kg
Selenium	0.05 mg/kg to 100 mg/kg			
Silver	0.05 mg/kg to 100 mg/kg			

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	Cheese, Mango Chutney, Pickles, Vinegar			
9.	Meat & Meat Products, fish and fish products, Sea food Poultry & poultry products	Heavy Metal (Trace Metal Elements)		
		Lead	AGSS/CHEM/SOP-ICP-MS/12	0.05 mg/kg to 1000 mg/kg
		Copper		0.05 mg/kg to 1000 mg/kg
		Arsenic		0.05 mg/kg to 1000 mg/kg
		Tin		0.05 mg/kg to 1000 mg/kg
		Zinc		0.05 mg/kg to 1000 mg/kg
		Cadmium		0.05 mg/kg to 1000 mg/kg
		Mercury		0.05 mg/kg to 1000 mg/kg
		Chromium		0.05 mg/kg to 1000 mg/kg
		Iron		0.05 mg/kg to 1000 mg/kg
		Manganese		0.05 mg/kg to 1000 mg/kg
		Nickel		0.05 mg/kg to 1000 mg/kg
		Antimony		0.05 mg/kg to 1000 mg/kg
		Selenium		0.05 mg/kg to 1000 mg/kg
		Aluminum		0.05 mg/kg to 1000 mg/kg
		Boron	0.05 mg/kg to 1000 mg/kg	
V.	RESIDUE IN WATER			
1.	Water (Potable water, Surface Water, Ground Water, Bore- Well Water) Water(Potable water, Surface Water, Ground Water, Bore- Well Water)	Trace Metal Elements		
		Aluminium	AGSS/CHEM/SOP-ICPMS/03	0.005 mg/L to 10mg/L
		Barium		0.01 mg/L to 10 mg/L
		Boron		0.01 mg/L to 10 mg/L
		Copper		0.005 mg/L to 10mg/L
		Iron		0.005 mg/L to 10mg/L
		Manganese		0.005 mg/L to 10mg/L
		Selenium		0.005 mg/L to 10mg/L
		Silver		0.005 mg/L to 10mg/L
		Zinc		0.01 mg/L to 10 mg/L

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		Cadmium		0.001 mg/L to 10mg/L
		Lead		0.005 mg/L to 10mg/L
		Mercury		0.0001 mg/L to 10mg/L
		Nickel		0.005 mg/L to 10mg/L
		Arsenic		0.005 mg/L to 10mg/L
		Chromium		0.005 mg/L to 10mg/L
		Pesticides		
		Alachlor	AGSS/CHEM/SOP-GCMS/01	0.01 µg/L to 1000 µg/L
		Atrazine		0.01 µg/L to 1000 µg/L
		Aldrin/Dieldrin		0.01 µg/L to 1000 µg/L
		Alpha HCH		0.01 µg/L to 1000 µg/L
		Beta HCH		0.01 µg/L to 1000 µg/L
		Butachlor		0.01 µg/L to 1000 µg/L
		Chlorpyrifos		0.01 µg/L to 1000 µg/L
		Delta HCH		0.01 µg/L to 1000 µg/L
		DDT(o, p and p, p-Isomers of DDT, DDE and DDD)		0.01 µg/L to 1000 µg/L
		Endosulfan (alpha, beta and sulphate)		0.01 µg/L to 1000 µg/L
		Ethion		0.01 µg/L to 1000 µg/L
		GammaHCH(Lindane)		0.01 µg/L to 1000 µg/L
		Malathion		0.01 µg/L to 1000 µg/L
		Methyl parathion		0.01 µg/L to 1000 µg/L
		Phorate		0.01 µg/L to 1000 µg/L
		Monocrotophos		0.01 µg/L to 1000 µg/L
		2,4-D	AGSS/CHEM/SOP/HPLC-01	0.01 µg/L to 1000 µg/L
		Iso-proturon		0.01 µg/L to 1000 µg/L
		Polychlorinated biphenyls (PCB)		
		Polychlorinated biphenyls(PCB)	AGSS/CHEM/SOP-GCMS/01	0.05 µg/L to 1000 µg/L
		Polynuclear Aromatic hydrocarbons (PAH)		

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		Polynuclear Aromatic hydrocarbons (PAH)	AGSS/CHEM/SOP-GCMS/01	0.05 µg/L to 1000 µg/L	
2.	Packaged Drinking Water/Packaged Natural Mineral Water	Trace metal elements			
		Iron		0.005 mg/L to 10mg/L	
		Aluminium	AGSS/CHEM/SOP-ICPMS/03	0.005 mg/L to 10mg/L	
		Chromium		0.005 mg/L to 10mg/L	
		Manganese		0.005 mg/L to 10mg/L	
		Nickel		0.005 mg/L to 10mg/L	
		Copper		0.005 mg/L to 10mg/L	
		Zinc		0.01 mg/L to 10mg/L	
		Arsenic		0.005 mg/L to 10mg/L	
		Selenium		0.005 mg/L to 10mg/L	
		Silver		0.005 mg/L to 10 mg/L	
		Cadmium		0.001 mg/L to 10 mg/L	
		Antimony		0.005 mg/L to 10mg/L	
		Barium		0.01 mg/L to 10mg/L	
		Mercury		0.0001 mg/L to 10mg/L	
		Lead		0.005 mg/L to 10 mg/L	
			Pesticide residue		
			o,p DDT	AGSS/CHEM/SOP-GCMS/01	0.01 µg/L to 1000 µg/L
			p,p DDT		0.01 µg/L to 1000 µg/L
			o,p DDE		0.01 µg/L to 1000 µg/L
			p, p DDE		0.01 µg/L to 1000 µg/L
			o,p DDD		0.01 µg/L to 1000 µg/L
			p,p DDD		0.01 µg/L to 1000 µg/L
			α- BHC		0.01 µg/L to 1000 µg/L
			β- BHC		0.01 µg/L to 1000 µg/L
			γ -BHC/Lindane		0.01 µg/L to 1000 µg/L
			δ- BHC		0.01 µg/L to 1000 µg/L
	Alpha -Endosulfan		0.01 µg/L to 1000 µg/L		
	Beta-Endosulfan		0.01 µg/L to 1000 µg/L		
	Endosulfan Sulfate		0.01 µg/L to 1000 µg/L		

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		Aldrin		0.01 µg/L to 1000 µg/L
		Dieldrin		0.01 µg/L to 1000 µg/L
		Ethion		0.01 µg/L to 1000 µg/L
		Chlorpyrifos		0.01 µg/L to 1000 µg/L
		Atrazine		0.01 µg/L to 1000 µg/L
		Methyl Parathion		0.01 µg/L to 1000 µg/L
		Malathion		0.01 µg/L to 1000 µg/L
		Butachlor		0.01 µg/L to 1000 µg/L
		Alachlor		0.01 µg/L to 1000 µg/L
		Methyl Paraoxon		0.01 µg/L to 1000 µg/L
		Malaoxon		0.01 µg/L to 1000 µg/L
		Phorate sulphone		0.01 µg/L to 1000 µg/L
		Phorate sulphoxide		0.01 µg/L to 1000 µg/L
		Monocrotophos		0.01 µg/L to 1000 µg/L
		Phorate		0.01 µg/L to 1000 µg/L
		2,4 D	AGSS/CHEM/SOP-	0.01 µg/L to 1000 µg/L
		Isoproturon	HPLC/01	0.01 µg/L to 1000 µg/L
		Polynuclear Aromatic Hydrocarbons (PAH)		
		Acenaphthene		0.05 µg/L to 1000 µg/L
		Fluorene		0.05 µg/L to 1000 µg/L
		Phenanthrene		0.05 µg/L to 1000 µg/L
		Anthracene		0.05 µg/L to 1000 µg/L
		Fluoranthene		0.05 µg/L to 1000 µg/L
		Pyrene		0.05 µg/L to 1000 µg/L
		Benzo (a)anthracene		0.05 µg/L to 1000 µg/L
		Chrysene		0.05 µg/L to 1000 µg/L
		Benzo (β)Fluoranthene		0.05 µg/L to 1000 µg/L
		Benzo (k) Fluoranthene		0.05 µg/L to 1000 µg/L
		Benzo (a)Pyrene		0.05 µg/L to 1000 µg/L
		Indeno(1,2,3-cd)Pyrene		0.05 µg/L to 1000 µg/L
		Dibenzo(a,h) Anthracene		0.05 µg/L to 1000 µg/L
		Benzo(g,h,i)Perylene		0.05 µg/L to 1000 µg/L
		PolyChlorinatedBiphenyls (PCB)		

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		2,3,4'-Trichlorobiphenyl	AGSS/CHEM/SOP-GCMS/01	0.05 µg/L to 1000 µg/L
		2,2',4,4'-Tetrachlorobiphenyl		0.05 µg/L to 1000 µg/L
		2,3',4,4',5,6' Hexachlorobiphenyl		0.05 µg/L to 1000 µg/L
		2,2',4,4',5,6'-Hexachlorobiphenyl		0.05 µg/L to 1000 µg/L
		2,2',4,4',5,6'-Heptachlorobiphenyl		0.05 µg/L to 1000 µg/L
VI.	AYUSH PRODUCTS			
1.	Ayurvedic Drugs (Syrup)	Arsenic	AGSS/CHEM/SOP/ICP-MS/13	0.1 mg/kg to 1000 mg/kg
		Lead		0.1 mg/kg to 1000 mg/kg
		Cadmium		0.1 mg/kg to 1000 mg/kg
		Mercury		0.1 mg/kg to 1000 mg/kg

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**.