

**Laboratory** Devansh Testing & Research Laboratory Pvt. Ltd., 94, Shiv Ganga Industrial Estate, Lakeshari, Bhagwanpur, Roorkee, Haridwar, Uttarakhand

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

**Certificate Number** TC-6467 (in lieu of T-2088 & T-2089)

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**Validity** 24.11.2017 to 23.11.2019

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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

<b>I.</b>	<b>DRUGS &amp; PHARMACEUTICALS</b>			
<b>1.</b>	<b>Raw materials</b>	Total Aerobic Viable Count	IP Method (2.2.9)	≥ 10 cfu/gm
		Total Yeast & Moulds	IP Method (2.2.9)	(Present / Absent) / gm
		Escherichia coli	IP Method (2.2.9)	(Present / Absent) / gm
		Salmonella Sp.	IP Method (2.2.9)	(Present / Absent)/10gm
		Staphylococcus aureus	IP Method (2.2.9)	(Present / Absent) / gm
		Pseudomonas aeruginosa	IP Method (2.2.9)	(Present / Absent) / gm
<b>2.</b>	<b>Antibiotics</b>			
<b>a.</b>	<b>Gentamycin Sulphate I.P.</b>	Assay	IP Method A (2.2.10)	80 - 120 % of stated claim
<b>b.</b>	<b>Amikacin Sulphate I.P.</b>	Assay	IP Method B (2.2.10)	80 - 120 % of stated claim
<b>3.</b>	<b>Finished products (syrops)</b>	Total Aerobic Viable Count	IP Method (2.2.9)	≥ 10 cfu/ ml
		Total Yeast & Moulds	IP Method (2.2.9)	(Present / Absent) / ml
		Escherichia coli	IP Method (2.2.9)	(Present / Absent) / ml
		Salmonella Sp.	IP Method (2.2.9)	(Present / Absent) / 10ml
		Staphylococcus aureus	IP Method (2.2.9)	(Present / Absent) / ml
		Pseudomonas aeruginosa	IP Method (2.2.9)	(Present / Absent) / ml
<b>4.</b>	<b>Finished products (Tablets and capsules)</b>	Total Aerobic Viable Count	IP Method (2.2.9)	≥ 10 cfu/gm
		Total Yeast & Moulds	IP Method (2.2.9)	(Present / Absent) /gm
		Escherichia coli	IP Method (2.2.9)	(Present / Absent) / gm
		Salmonella Sp.	IP Method (2.2.9)	(Present / Absent)/10gm
		Staphylococcus aureus	IP Method (2.2.9)	(Present / Absent) / gm
		Pseudomonas aeruginosa	IP Method (2.2.9)	(Present / Absent) / gm

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<b>5.</b>	<b>Parental Preparations</b>			
a.	Water For Injection	Sterility (Membrane Filtration)	IP Method 2.2.11	Complies/Does Not Comply
b.	Amikacin Injection IP	Sterility (Membrane Filtration)	IP Method 2.2.11	Complies/Does Not Comply
c.	Gentamicin Injection IP	Sterility (Membrane Filtration)	IP Method 2.2.11	Complies/Does Not Comply
<b>6.</b>	<b>Medical Devices/ Surgical Items</b>			
a.	Syringe, Needle, Cannula, Gloves, IV sets, Surgical Blades	Sterility (Membrane Filtration)	IP Method 2.2.11	Complies/Does Not Comply
<b>7.</b>	<b>Cosmetics</b>			
a.	Skin Creams & Lotions	Total Microbial Count	IS 14648	≥10cfu/gm
		Yeast & Mould count	IS 14648	Present/Absent per gm
		E.coli	IS 14648	Present/Absent per gm
		S. aureus	IS 14648	Present/Absent per gm
		P.aeruginosa	IS 14648	Present/Absent per gm
		C. albicans	IS 14648	Present/Absent per gm
<b>II.</b>	<b>FOOD &amp; AGRICULTURE PRODUCTS</b>			
<b>1.</b>	<b>Milk &amp; Dairy Products</b>			
a.	Milk Powder	Total Plate Count	IS 5402	≥ 10 cfu/gm
		Coliform	IS 5401 (Part-1)	≥ 10 cfu/gm
		S.aureus	IS 5887 (Part-2)	Absent / Present per gm
		Salmonella	IS 5887 (Part-3)	Absent/Present per 25gm
		Shigella	IS 5887 (Part-7)	Absent / Present per 25gm
b.	Cream (Pasteurized Cream)	Total Plate Count	IS 3509	≥ 10 cfu/gm
		Coliform Count	IS 3509	≥ 10 cfu/gm

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c.	Butter	Coliform Count	IS 3507	≥ 10 cfu/gm
		Yeast & Mould Count	IS 3507	≥ 10 cfu/gm
d.	Malted Milk Food	Total Plate Count	IS 5402	≥ 10 cfu/gm
		Coliform Count	IS 5401 (Part-1)	≥ 10 cfu/gm
e.	Dahi	Yeast & Mould Count	IS 5403	≥ 10 cfu/gm
		Coliform count	IS 5401 (Part-1)	≥ 10 cfu/gm
f.	Milk (Pasteurized Milk)	Total Plate Count	IS 5402	≥ 10 cfu/ml
		Coliform	IS 5401 (Part-1)	≥ 10 cfu/ml
		S.aureus	IS 5887 (Part-2)	Absent/Present per ml
g.	Condensed Milk	Total Plate Count	IS 5402	≥ 10 cfu/gm
		Coliform	IS 5401 (Part-1)	≥ 10 cfu/gm
		Yeast & Mould Count	IS 5403	≥ 10 cfu/gm
		S.aureus	IS 5887 (Part -2)	Absent/Present per gm
h.	Milk Cereal Based Food	Total Plate Count	IS 5402	≥ 10 cfu/gm
		Coliform	IS 5401 (Part -2)	Absent/Present per gm
		E.coli	IS 5887 (Part -1)	Absent/Present per gm
		S.aureus	IS 5887 (Part -2)	Absent/Present per gm
		Salmonella	IS 5887 (Part -3)	Absent/Present per 25gm
		Shigella	IS 5887 (Part -7)	Absent/Present per 25gm
		Yeast & Mould Count	IS 5403	Absent/Present per gm
2.	Beverages			
a.	Non Alcoholic	Total Plate Count	IS 5402	≥ 1 cfu/ml
		Coliform	IS 4831 IS 5401 (Part -2)	Absent/Present per 100ml
		Yeast & Mould Count	IS 5403	≥ 10 cfu/ml
b.	Carbonated Beverages	Total Plate Count	IS 5402	≥ 1 cfu/ml
		Coliform	IS 5401 (Part -2)	Absent/Present per 100ml
		Yeast & Mould Count	IS 5403	≥ 1 cfu/ml
3.	Other Specified Food Items			
a.	Chocolates	S.aureus	IS 5887 (Part -2)	Absent/Present per gm
		Salmonella	IS 5887 (Part -3)	Absent/Present per 25gm
		E.coli	IS 5887 (Part -1)	Absent/Present per gm

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b.	Corn Flour	Yeast & Mould Count	IS 5403	≥ 10 cfu/gm
		E.coli	IS 5887 (Part -1)	Absent / Present per gm
		Salmonella	IS 5887 (Part -3)	Absent / Present per 25 gm

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#### CHEMICAL TESTING

<b>I.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Stack Emission</b>	Particulate Matter(PM)	IS 11255 (Part -1)	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Sulphur Dioxide(SO <sub>2</sub> )	IS 11255 (Part -2)	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Oxide of Nitrogen(Nox)	IS 11255 (Part -7)	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Carbon Monoxide (CO)	IS 13270 By Gas Analyser/ IS 5182 (Part -10)	5 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Oxygen(O <sub>2</sub> )	IS 13270 By Gas Analyser	Min. 1%v/v 25%v/v
		Carbon Dioxide (CO <sub>2</sub> )	IS 13270 By Gas Analyser	Min. 1%v/v to 15%v/v
		Lead (Pb)	IS 11255(Part -1) By AAS	0.05 mg/Nm <sup>3</sup> to 300 mg/Nm <sup>3</sup>
		Hydrocarbon	APHA101 (AIR) 2 <sup>ND</sup> Edition	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
<b>2.</b>	<b>Ambient Air/ Indoor Air</b>	Suspended Particulate Matter (SPM)	IS 5182(Part -4)	5 µg/m <sup>3</sup> to 10000 µg/m <sup>3</sup>
		PM <sub>10</sub>	IS 5182 (Part -23)	5 µg/m <sup>3</sup> to 1500 µg/m <sup>3</sup>
		PM <sub>2.5</sub>	SOP-DTRL-QCC-157 Gravimetric Method / CPCB Guidelines	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part -2)	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182(Part -6)	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Carbon Monoxide (CO)	IS 5182 (Part -10)	5 ppm to 5000 ppm
		Ammonia(NH <sub>3</sub> )	APHA 401 (AIR)	0.5 µg/m <sup>3</sup> to 700 µg/m <sup>3</sup>
		Ozone(O <sub>3</sub> )	IS 5182 (Part -9) APHA 411	19.6 µg/m <sup>3</sup> to 19620 µg/m <sup>3</sup>
		Lead (Pb)	IS 5182(Part -22) AAS Flame, APHA 82	0.01 µg/m <sup>3</sup> to 10 µg/m <sup>3</sup>
		Nickel(Ni)	APHA (AIR)	0.005 ng/m <sup>3</sup> to 300 ng/m <sup>3</sup>
		Arsenic (As)	APHA 3113 A 22 <sup>ND</sup> Edition	0.001 ng/m <sup>3</sup> to 150 ng/m <sup>3</sup>
		Benzene(C <sub>6</sub> H <sub>6</sub> )	IS 5182(Part -11)	0.01 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>

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		Toluene	IS 5182(Part -11)	0.01 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Xylene	IS 5182(Part -11)	0.01 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Silica	DTRL-SOP-QCC-180	0.04 mg/m <sup>3</sup> to 10 mg/m <sup>3</sup>
3.	Noise-Ambient And Source	Noise Level Ambient Leq dB(A)	IS 9876	30 to 130 dB(A)
		Noise level source	IS 4758	30 to 130 dBA
		Illumination level	IS 3646 (Part -1)	1 to 5000 Lux
II.	<b>POLLUTION AND ENVIRONMENT</b>			
1.	Industrial Effluent Water	pH	APHA 4500-H+B	2 to 12
		Nitrate (as NO <sub>3</sub> )	APHA 4500 NO <sub>3</sub>	0.2 mg/L to 100 mg/L
		Iron (as Fe)	APHA 3111 B	0.5 mg/L to 50 mg/L
		Electrical Conductivity	APHA 2510 B	1 to 100000 µmhos/cm
		Colour	APHA 2012 C	0.5 Hazen to 500 Hazen
		Turbidity	APHA 2130 B	0.1 NTU to 500 NTU
		Total Suspended Solid	APHA 2540 D	5 mg/L to 5000 mg/L
		Total Dissolved Solids	APHA 2540 C	5 mg/L to 50000 mg/L
		Oil and grease	APHA 5520 B	3 mg/L to 5000 mg/L
		Ammonical Nitrogen as N	APHA 4500-NH <sub>3</sub> C	0.5 mg/L to 100 mg/L
		Total Kjeldhal Nitrogen	APHA 4500-Norg B	0.5 mg/L to 100 mg/L
		Free Ammonia as N	APHA 4500-NH <sub>3</sub> F	0.09 mg/L to 1400 mg/L
		Biochemical Oxygen Demand	APHA 5220-B& D	5 mg/L to 50000 mg/L
		Chemical Oxygen Demand	APHA 5220-B	5 mg/L to 100000 mg/L
		Cyanide as CN-	APHA 4500-CN D	0.05 mg/L to 10 mg/L
		Chloride as Cl	APHA 4500-Cl B	1 mg/L to 20000 mg/L
		Fluoride as F	APHA 4500 F D	0.1 mg/L to 100 mg/L
		Phosphate as P	APHA 4500 P. D	0.1 mg/L to 50 mg/L
		Sulphate (SO <sub>4</sub> ) 2-	APHA 4500-SO <sub>4</sub> 2. E	1 mg/L to 20000 mg/L
		Sulphide as S	APHA 4500-S <sub>2</sub> F	1 mg/L to 50 mg/L

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		Phenolic Compound	APHA 5530-D	0.1 mg/L to 50 mg/L
		Bio-Assay Test	IS 6582 (Part -2)	0 to 100%
		Temperature	APHA 2550-B	1 °C to 400 °C
		Total Residual Chlorine	APHA 4500 Cl-B	0.1 mg/L to 50 mg/L
		Chromium Hexavalent Cr <sup>+6</sup>	APHA 3500 - B	0.01 mg/L to 15 mg/L
		Arsenic (as As)	APHA 3113 – A	0.01 mg/L to 100 mg/L
		Mercury (Hg)	APHA 3112 – B	0.001 mg/L to 100 mg/L
		Lead (Pb)	APHA 3111 – B	0.01 mg/L to 100 mg/L
		Cadmium (as Cd)	APHA 3111 – B	0.002 mg/L to 100 mg/L
		Total Chromium(Cr)	APHA 3111 – B	0.01 mg/L to 100 mg/L
		Copper(Cu)	APHA 3111 – B	0.05 mg/L to 100 mg/L
		Zinc(Zn)	APHA 3114 – B	0.02 mg/L to 100 mg/L
		Selenium(Se)	APHA 3111 – B	0.01 mg/L to 50 mg/L
		Nickel	APHA 3111 – B	0.01 mg/L to 50 mg/L
		Manganese (Mn)	APHA3500 – B,	0.01 mg/L to 50 mg/L
		Calcium(Ca)	APHA 3111 – B	1.0 mg/L to 1000 mg/L
		Magnesium (Mg)	APHA 3500 – B	1.0 mg/L to 1000 mg/L
		Sodium (Na)	APHA3500 – B	1.0 mg/L to 2000 mg/L
		Potassium (K)	APHA 3500 – B	1.0 mg/L to 1000 mg/L
<b>2.</b>	<b>Soil/Sludge</b>	pH	IS 2720(Part -26)	2 to 12
		Organic Matter	IS 2720 (Part -22) IS 1173	0.05% to 50.6%
		Organic Carbon	IS 2720 (Part -22)	0.025 to 25.6
		Moisture	IS 2720 (Part -22)	0.1% to 50%
		Electrical Conductivity	IS 14767	1 µs/cm to 1000 µs/cm
		Total Kjeldhal Nitrogen	SOP-DTRL-QCC-153	50 mg/Kg to 1000 mg/Kg
		Phosphorus	SOP-DTRL-QCC-154	5 mg/Kg to 100 mg/Kg
		Nitrate Nitrogen	SOP-DTRL-QCC-155	10 mg/Kg to 100 mg/Kg
		Total Chromium(Cr)	USEPA 3050 B (AAS Flame)	1.0 mg/Kg to 10000 mg/Kg

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		Copper(Cu)	USEPA 3050 B (AAS Flame)	1.0 mg/Kg to 1000 mg/Kg
		Iron(Fe)	USEPA 3050 B (AAS Flame)	2 mg/Kg to 1000 mg/Kg
		Lead(Pb)	USEPA 3050 B (AAS Flame)	1.0 mg/Kg to 2000 mg/Kg
		Magnesium (Mg)	USEPA 3050 B (AAS Flame)	10 mg/Kg to 5000 mg/Kg
		Manganese (Mn)	USEPA 3050 B (AAS Flame)	1.0 mg/Kg to 4000 mg/Kg
		Potassium (K)	USEPA 3050 B (AAS Flame)	10 mg/Kg to 5000 mg/Kg
		Zinc (Zn)	USEPA 3050 B (AAS Flame)	2 mg/Kg to 5000 mg/Kg
		Cadmium (Cd)	USEPA 3050 B (AAS Flame)	2 mg/Kg to 1000 mg/Kg
		Sodium (Na)	USEPA 3050 B (AAS Flame)	10 mg/Kg to 5000 mg/Kg
		Selenium(Se)	USEPA 3050 B (VGA)	10 mg/Kg to 1000 mg/Kg
		Calcium (Ca)	USEPA 3050 B (AAS Flame)	10 mg/Kg to 1000 mg/Kg
		Gross Calorific Value	IS 1350 (P-2)	10 Cal/g to 15000 Cal/g
<b>III.</b>	<b>WATER</b>			
<b>1.</b>	<b>Potable Water, Borewell Water, Tube well water, RO water, Swimming pool water, Process Water, Surface Water,</b>	Colour	IS 3025(Part -4)	0.5 to 500 Hazen unit
		Odour	IS 3025(Part -5)	Agreeable
		Taste	IS 3025(Part -7/8)	Agreeable
		Turbidity (NTU)	IS 3025(Part -10)	0.1 - 1 to 500 NTU
		Total Solids	IS 3025(Part -15)	5 mg/L to 50000 mg/L
		pH Value	IS 3025(Part -11)	2 to 12
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025(Part -21)	5 mg/L to 700 mg/L



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		Iron	IS 3025(Part -53)	0.05 mg/L to 50 mg/L
		Chloride	IS 3025(Part -32)	1 mg/L to 1500 mg/L
		Dissolved solids	IS 3025(Part -16)	5 mg/L to 5000 mg/L
		Calcium	IS 3025(Part -40)	1 mg/L to 500 mg/L
		Magnesium	IS 3025(Part -46)	1 mg/L to 500 mg/L
		Copper	IS 3025(Part -42)	0.01 mg/L to 100 mg/L,
		Nitrate	IS 3025(Part -34)	0.2 mg/L to 100 mg/L
		Alkalinity	IS 3025(Part -23)	1 mg/L to 750 mg/L
		Aluminium	IS 3025 (Part -55)	0.01 mg/L to 100 mg/L
		Manganese	IS 3025 (Part -59), IS 15303	0.01 mg/L to 50 mg/L
		Selenium	IS 3025 (Part -56)	0.01 mg/L to 50 mg/L
		Silver	IS 13428 (Annex J)	0.01 mg/L to 100 mg/L
		Zinc	IS 3025 (Part -39)	0.2 mg/L to 100 mg/L
		Cadmium	IS 3025 (Part -41)	0.002 mg/L to 100 mg/L
		Lead	IS 3025 (Part -47)	0.01 mg/L to 100 mg/L
		Mercury	IS 3025 (Part -48)	0.001 mg/L to 50 mg/L
		Arsenic	IS 3025 (Part -37)	0.01 mg/L to 100 mg/L
		Nickel	IS 3025 (Part -54)	0.01 mg/L to 50 mg/L
		Chromium	IS 3025 (Part -52)	0.01 mg/L to 100 mg/L
2.	<b>Packaged Drinking Water/Packaged Natural Mineral Water</b>	Colour	IS 3025 (Part -4) Method A	0.5 to 500 Hazen unit
		Odour	IS 3025 (Part -5)	Agreeable
		Taste	IS 3025 (Part -8)	Agreeable
		Turbidity, NTU	IS 3025 (Part -10)	0.1 NTU to 500 NTU
		Total dissolve solid	IS 3025 (Part-16)	5 mg/L to 500 mg/L
		pH	IS 3025 (Part -11)	2 to 12
		Nitrate	IS 3025 (Part -34)	0.2 mg/L to 100 mg/L
		Chloride (Cl)	IS 3025 (Part -32)	1 mg/L to 1500 mg/L
		Alkalinity	IS 3025 (Part -23)	1 mg/L to 750 mg/L
		Copper	IS 3025(Part -42)	0.01 mg/L to 100 mg/L
		Iron	IS 15303 IS 3025 (Part -53)	0.05 mg/L to 50 mg/L

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		Manganese	IS 3025 (Part -59) IS 15303	0.01 mg/L to 50 mg/L
		Zinc	IS 3025 (Part -39)	0.2 mg/L to 100 mg/L
		Silver	IS 13428 (Annex J)	0.01 mg/L to 100 mg/L
		Aluminium	IS 3025 (Part -55)	0.01 mg/L to 100 mg/L
		Selenium	IS 3025 (Part -56)	0.01 mg/L to 50 mg/L
		Calcium	IS 3025 (Part -40)	1 mg/L to 500 mg/L
		Magnesium	IS 3025 (Part-46) IS 15303	1 mg/L to 500 mg/L
		Mercury	IS 3025 (Part -48)	0.001 mg/L to 50 mg/L
		Cadmium	IS 3025 (Part -41)	0.002 mg/L to 100 mg/L
		Arsenic	IS 3025(Part -37)	0.01 mg/L to 100 mg/L
		Lead	IS 3025 (Part -47)	0.01 mg/L to 100 mg/L
		Chromium	IS 13428(Annex J)	0.01 mg/L to 100 mg/L
		Nickel	IS 13428(Annex L)	0.01 mg/L to 50 mg/L
		Sulphate	IS 3025 (Part -24)	1 mg/L to 2000 mg/L
		Fluoride	APHA 4500F-D	0.1 mg/L to 25 mg/L
3.	Water For Construction	pH	IS 3025 (Part -11)	2 to 12
		Suspended Solid	APHA 2540 D IS 3025 (Part -17)	5 mg/L to 3000 mg/L
		Chloride	IS 3025(Part -32)	1 mg/L to 1500 mg/L
		Iron	APHA 4500B	0.05 mg/L to 50 mg/L
IV.	COSMETICS & ESSENTIAL OILS			
1.	Tooth powder/ Tooth Paste/ Skin Powder	Homogeneity	IS:6356	Qualitative
		Stability	IS:6356	Qualitative
		Tube Inertness	IS:6356	Qualitative
		Hard and Sharp edges particle	IS:6356 IS:5383	Qualitative
		Fineness/Sieve analysis	IS:6356 IS:5383	0.5% to 80.0%

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			IS:5339 IS:3959	
		PH of aqueous solution	IS:6356 IS:5383 IS:5339 IS:3959	1.0 to 14.0
		Heavy metals (Lead)	IS:6356 IS:5383 IS:5339 IS:3959	Qualitative
		Arsenic	IS:6356 IS:5383 IS:5339	Qualitative
		Foaming	IS:6356 IS:5383	10 ml to 150 ml
		Fluoride	IS:6356	10 mg/l to 1000 mg/l
		Moisture & volatiles	IS:5383 IS:5339 IS:3959	1.0% to 50.0%
		Matter insoluble in boiling water	IS:5339	1.0% to 100.0%
2.	Shaving Cream	Consistency	IS:9740	Qualitative
		Homogeneity	IS:9740	Qualitative
		Stability	IS:9740	Qualitative
		Effect on container	IS:9740	Qualitative
		Total fatty matter	IS:9740	10.0% to 90.0%
		Water content	IS:9740	10.0% to 90.0%
		Foaming Power	IS:9740	50.0 ml to 250.0 ml
		Free caustic alkalinity	IS:9740	Qualitative
3.	Lipstick	Softening point	IS:9875	25 °C to 100 °C
		Rancidity (Peroxide value)	IS:9875	2.0 mcq/kg to 20.0 mcq/kg

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		Particle size	IS:9875	10.0 to 50.0% (1 to 225UM)
		Pay off apparatus	IS:9875	Qualitative
		Heavy metals (Lead)	IS:9875	Qualitative
		Arsenic	IS:9875	Qualitative
4.	Hair Dye Powder	pH of 5% solution	IS:10350	1.0 to 14.0
		Active matter as PPD	IS:10350	1% to 40.0%
5.	After Shave Lotion	Alcohol content	IS:9255	1% to 90.0%
6.	Henna Powder	Sieve Analysis	IS:11142	10.0% to 100.0%
		Moisture and Volatile matter	IS:11142	1% to 25.0%
		Cold water extract	IS:11142	5% to 90.0%
		Crude Fibre	IS:11142	2.0% to 30.0%
		Mineral matter	IS:11142	1.0% to 25.0%
		Acid insoluble ash	IS:11142	1.0% to 20.0%
		Extraneous sand	IS:11142	1.0% to 25.0%
		Extragenous dyes	IS:11142	Qualitative
		Lowson content (Pigment)	IS:11142	0.5% to 5.0%
7.	Skin cream	Thermal stability	IS:6608	Qualitative
		pH	IS:6608	1.0 to 14.0
		Total fatty substance	IS:6608	1.0% to 50.0%
		Total Residue	IS:6608	0.1% to 90.0%
		Heavy Metals (Lead)	IS:6608	Qualitative
		Arsenic	IS:6608	Qualitative
8.	Shampoo	Physical characteristics	IS:7884	Qualitative
		Non volatile alcohol soluble matter	IS:7884	1.0% to 50.0%
		Active detergent	IS:7884	1.0% to 50.0%
		pH	IS:7884	1.0 to 14.0
		Foam Height	IS:7884	15mm to 250mm

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9.	Nail Polish	Non volatile matter	IS: 9245	1.0% to 70.0%
		Drying Time	IS: 9245	0.5 minute to 6.0 minutes
		Adhesion test	IS: 9245	Qualitative
		Scratch Test	IS: 9245	Qualitative
		Blush Test	IS: 9245	Qualitative
		Heavy Metals (Lead)	IS: 9245	Qualitative
		Arsenic	IS: 9245	Qualitative
10.	Hair Oil	Acid Value	IS:7123	0.1% to 10.0%
		Peroxide Value	IS:7123	0.1% to 10.0%
11.	Lip salve	Solubility on chloroform and toluene melting range	IS:10284	45% to 70%
		Lanolin test rancidity	IS:10284 Appendix A	Qualitative
		Stability	IS:10284 Appendix B	Qualitative
		Arsenic	IS:10284 Appendix C	Qualitative
		Heavy metals	IS:10284 Appendix D	Qualitative
V.	<b>ANIMAL FOOD &amp; FEEDS</b>			
1.	Animal Feed, Poultry Feed, Mineral Mixture	Moisture	IS 7874(Part -1)	0.1% to 20.0%
		Crude Protein (N x 6.25)	IS 7874(Part -1)	0.1% to 60.0%
		Crude Fibre	IS 7874(Part -1)	0.01% to 20.0%
		Crude Fat	IS 7874(Part -1)	0.05% to 10.0%
		Acid Insoluble Ash	IS 7874(Part -1)	0.01% to 10.0%
		Common Salt (as Sodium Chloride)	IS 7874(Part -2)	0.05% to 10%
		Phosphorus (as P)	IS 7874(Part -2)	0.1 % to 5.0%
		Iodine (as I)	IS 7874(Part -2)	5.0 mg/kg to 500 mg/kg
		Calcium (as Ca)	IS : 15121	0.6% to 25.0%
		Total Ash	IS 7874(P-1)	0.01% to 20.0%

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<b>VI.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Oils, Fats and Related Products</b>	Moisture and Insoluble Impurities	IS 548 (Part-1) FSSAI Lab Manual B-3.0	0.01% to 10.0%
		Saponification Value	IS 548 (Part -1) FSSAI Lab Manual B-9.0	100.0 to 250.0
		Acid Value	IS 548 (Part -1) FSSAI Lab Manual B-11.0	0.01 to 99.9
		Unsaponifiable Matter	IS 548 (Part -1) FSSAI Lab Manual B-10.0	0.1% to 5.0%
		Flash Point	IS 1448 (Part -21) FSSAI Lab Manual B-6.0	10.0°C to 360.0 °C
		Specific Gravity at 30/30°C	IS 548 (Part -1) FSSAI Lab Manual B-4.0	0.60 to 1.10
		Bellier Turbidity Temperature	IS 548 (Part -2) FSSAI Lab Manual B-14.0	10.0 °C to 50.0 °C
		Peroxide Value	IS 548 (Part -1)	20.0 to 80.0 mcg/1000g
		Nickel	IS 10633	1.0 mg/kg to 100.0 mg/kg
		Butyro- refractometer reading at 40°	IS 548 (Part -I)	0.10 to 100.0
		Refractive index at 40°C	IS 548 (Part -I) FSSAI Lab Manual B-5.0	1.333 to 1.4895
		Polenske value	IS 548 (Part -I) FSSAI Lab Manual B-13.8	1.0 to 20.0
		Test for sesame oil (Baudouins test)	IS 548(Part -2) FSSAI Lab Manual B-15.0	Present/Absent (0.2 mg/kg)
		Test for cotton seed oil (Halphen test)	IS 548(Part -2) FSSAI Lab Manual B-16.0	Present/Absent (0.5 mg/kg)
		Test for Linseed Oil (Hexabromide test)	IS 548(Part -2) FSSAI Lab Manual B-19.0	Present/Absent (1.0 mg/kg)
		Tests for presence of mineral oil	IS 548(Part -2) FSSAI Lab Manual B-28.0	Present/Absent (10.0 mg/kg)

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		Test for presence of castor oil	IS 548(Part -2) FSSAI Lab Manual B-29.0	Present/Absent (1.0 mg/kg)
		Test for presence of Argemone oil	IS 548(Part -2)	Present/Absent (50.0 mg/kg)
		Test for presence of Hydrocyanic Acid	IS 548(Part -2) FSSAI Lab Manual B-32.0	Present/Absent
		Test for Rancidity	IS 548(Part -2) FSSAI Lab Manual B-38.0	Present/Absent
2.	<b>Food Grains (Pulses, Rice, Wheat, Wheat, other grains)</b>	Moisture	IS 4333 (Part-1)	0.1 % to 30.0 %
		Foreign Matter	IS 4333 (Part-1)	0.01 % to 10.0 %
		Other food grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Damaged grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Discoloured grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Insect damaged grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Fragments	IS 4333 (Part-1)	0.01 % to 10.0 %
		Broken grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Slightly damaged or touched grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Chalky grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Red grains	IS 4333 (Part-1)	0.01 % to 10.0 %
		Kernels with husk	IS 4333 (Part-1)	0.01 % to 10.0 %
		Shriveled or immature	IS 4333 (Part-1)	0.01 % to 10.0 %
		Varietal admixture	IS 4333 (Part-1)	0.01 % to 10.0 %
		Uric acid	IS 4333 (Part-5)	5.0 mg/kg to 200.0 mg/kg
3.	<b>Fruit &amp; vegetables products (Fresh &amp; Processed), Thermally processed Products, Sauces, Paste, Jam, Jelly,</b>	Acidity (as Citric acid)	IS : 2860 FSSAI Lab Manual C-2.4	0.1% to 50.0%
		Salt (as NaCl)	IS : 2860	0.10% to 25.0%
		Copper (as Cu)	IS 4285	1.0 mg/kg to 100.0 mg/kg
		Drained weight	IS 2860 FSSAI Lab Manual C-1.4	10.0% to 99.0%
		Moisture Content	FSSAI Lab Manual C-4.1	0.1% to 80.0%

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	Fruit Juices, Non alcoholic beverages, Canned Products	Total ash Content	IS 3543 FSSAI Lab Manual C-11.3	0.01% to 20.0%
		Ash insoluble in dilute-HCL	IS 3543 FSSAI Lab Manual C-5.3	0.01 % to 10.0%
4.	Milk & Milk Products, Ghee/Butter	Butyro-refractrometer reading at 40°C	IS 3508 FSSAI Lab Manual A-13.3	0.1 to 100.0
		Moisture	IS 3507 IS 3508 FSSAI Lab Manual A-13.2	0.01% to 10.0%
		Free fatty Acid (as oleic acid)	IS 3508 FSSAI Lab Manual A-13.4	0.01% to 20.0%
		Reichert meissl value	IS 3508 FSSAI Lab Manual A-13.5	1.0 to 40.0
		Polenske value	IS 3508	1.0 to 20.0
		Baudouins test	IS 3508 FSSAI Lab Manual A-13.6	Present/Absent
		Presence of animal body fat in milk fat	IS 548 (Part-2)	Present/Absent
		Curd	IS 3507 FSSAI Lab Manual A-12.3	0.1% to 20.0%
		Salt as( Nacl)	IS 3507 FSSAI Lab Manual A-12.3	0.1% to 5.0 %
		Titration Acidity as lactic Acid	IS 3507 FSSAI Lab Manual A-10.4	0.1% to 5.0%
5.	Milk & Milk Products, Curd, Lassi, Ice cream, Cream, Cheese, Chana, Paneer, Malai, Condensed Milk, Skimmed Milk Powder	Total Solids/ Solid non fat (SNF)	IS 2802 FSSAI Lab Manual A-4.4 IS 1479 (Part-2)	0.50% to 99.0%
		Total Fat/ Fat/Milk Fat	IS 2802 FSSAI Lab Manual A-4.2 IS 1479 (Part-2)	0.1% to 50.0%
		Acidity (as lactic acid) Titration acidity	IS 2802 FSSAI Lab Manual A-10.4 IS 1479 (Part-1)	0.10% to 20.0%



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		Sucrose	IS 2802 FSSAI Lab Manual A-11.5 IS 1 479 (Part-2) IS 4079.	0.50% to 75.0%
		Protein	IS 7219 IS 1479 (Part-1) FSSAI Lab Manual A-10.6	0.50% to 30.0%
		Phosphate test	IS 2802, IS 1479 (Part-11) FSSAI Lab Manual . A-1.3.1	Present/Absent
		Cane Sugar	IS 1479 (Part-1) FSSAI Lab Manual. A-1.2.1	Present/Absent
		Starch	IS 1479 FSSAI Lab Manual A-1.2.2	Present/Absent
		Urea	IS 1479 (Part-1) FSSAI Lab Manual A-1.2.4	Present/Absent (70.0mg/kg)
		Neutralizer (NaOH, 0.1% for Na <sub>2</sub> CO <sub>3</sub> and 0.2% for NaHCO <sub>3</sub> )	IS 1479(Part-1) IS 1479(Part-11) FSSAI Lab Manual A-1.2.11	Present/Absent
		Detection of cellulose	FSSAI Lab Manual A-1.2.3	Present/Absent
		Detection of Aluminium Sulphate	FSSAI Lab Manual A-1.2.6	Present/Absent
		Detection of sodium chloride	FSSAI Lab Manual A-1.2.8	Present/Absent
		Detection of saccharin	FSSAI Lab Manual A-1.2.9	Present/Absent
		Detection of Skimmed Milk Powder	FSSAI Lab Manual A-1.2.15	Present/Absent
6.	Edible starch & starch products	Moisture	IS 4706 (Part-II)	0.01 % to 20.0%
		Total Ash	IS 4706 (Part-II)	0.01 % to 20.0%
		Acid Insoluble Ash	IS 4706 (Part-II)	0.05 % to 20.0%
		Total Ash Excluding NaCl	IS 4706 (Part-II)	0.01 % to 20.0%
		Sulphated Ash	IS 4706 (Part-II)	0.01 % to 20.0%
		Starch	IS 4706 (Part-II)	1.0 % to 90.0%
		Protein	IS 4706 (Part-II)	0.1 % to 30.0%
		pH of aqueous extract of	IS 4706 (Part-II)	1.0 to 14.0

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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
		10% solution		
		Free Acidity	IS 4706 (Part-II)	0.1% to 5.0%
		Sulphur Dioxide	IS 4706 (Part-II)	1.0 mg/kg to 1000 mg/kg
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> with 90% Alcohol	IS 4706 (Part-II)	0.01% to 5.0%
		Crude fibre	IS 4706 (Part-II)	0.01% to 50.0%
		Lead	AOAC . 999.10	0.05 mg/kg to 2.5 mg/kg
		Copper	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Arsenic	AOAC 912.01	0.05 mg/kg to 2.5 mg/kg
		Zinc	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
7.	Spices and Condiment	Moisture	IS 1797 FSSAI Lab Manual D-16.1	0.1% to 40.0%
		Total Ash	IS 1797 FSSAI Lab Manual G-4.0	0.1% to 20.0%
		Acid insoluble ash	IS 1797 FSSAI Lab Manual G-5.0	0.001% to 20.0%
		Water insoluble ash	IS 1797	0.001% to 20.0%
		Alcoholic soluble extract	IS 1797 FSSAI Lab Manual G-7.0	0.001% to 20.0%
		Cold water soluble extract	IS 1797 FSSAI Lab Manual G-6.0	0.01% to 20.0%
		Volatile oil	IS 1797 FSSAI Lab Manual G-10.0	0.1% to 50.0%
		Non volatile ether extract	IS 1797 FSSAI Lab Manual G-9.0	0.1% to 75.0%
		Salt (as NaCl)	IS 1797	0.1% to 10.0%
		Synthetic colour/ Added colour	FSSAI Lab Manual E-4.3	(Present/Absent)
		Curcumin Content	IS 10925 FSSAI Lab Manual G-16.4	0.99 % to 15.0%
		Extraneous matter, dirt	IS 1797 IS 1798 FSSAI Lab Manual G-15.2	0.02 % to 3.0%

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		Starch	FSSAI Lab Manual G-16.5, IS 4706 (Part-II)	0.1% to 90.0%
		Peprine content	IS 15695	0.1% to 10.0%
		Proportion of edible seeds other than cumin seeds	IS 4333:(Part-1)	0.05% to 5.0%
		Calcium as Calcium Oxides	IS 1797 FSSAI Lab Manual. G-8.0	0.01% to 5.0%
		Total Nitrogen	IS 5494 FSSAI Lab Manual G-15.7	0.01% to 10.0%
		Crude fibre	IS 1797 FSSAI Lab Manual G-11.0	0.01% to 50.0%
		Test for lead chromate	IS 3576 FSSAI Lab Manual G-16.6	Positive/Negative
		Peroxidase test	IS 4624	Positive/Negative
		Lead	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Copper	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Arsenic	AOAC 912.01	0.05 mg/kg to 2.5 mg/kg
		Zinc	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Cadmium	AOAC 999.11	0.05 mg/kg to 2.5 mg/kg
		Tin	AOAC 980.19	0.05 mg/kg to 2.5 mg/kg
8.	Nuts, Raisins and Dry fruits	Extraneous Matter, Rodent hair & excreta, Insect infestation, rodent contamination	IS 4333 (Part-1)	0.005% to 3.0%
		Moisture	IS 4684 FSSAI Lab Manual C-17.2	0.01% to 50.0%
		Damaged kernel	FSSAI Lab Manual D-1.6	0 to 50.0%
		Unopened shells	FSSAI Lab Manual D-2.1	0 to 40.0%
		Empty shell	FSSAI Lab Manual D-2.3	0 to 50.0%
		Blemished/ damage unit	FSSAI Lab Manual D-3.0	0 to 50.0%
		Acidity of extracted fat	IS 1011	0.01 % to 50.0%

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		Ash insoluble in dilute HCl	FSSAI Lab Manual C-17.4	0.01% to 5.0%
		Protein	IS 7219	0.1% to 50.0%
		Fat	IS 1656	0.01% to 90.0%
9.	Coffee, Tea, Cocoa, Catechine and related products	Total Ash	IS 3077 IS 13854	0.01% to 50.0%
		Acid insoluble ash	IS 3077/ IS 13857	0.01% to 20.0%
		Water soluble ash	IS 3077/ IS 13855	0.01% to 20.0%
		Alkalinity of ash	IS 13856	0.1% to 10.0%
		Moisture	IS 13853	0.01% to 15.0%
		Crude fibre	IS 1164/ IS 10226 (Pt-1)	0.01% to 50.0%
		Caffeine	IS 3077/ IS 2791	0.5% to 10.0%
		Lead	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Copper	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Arsenic	AOAC 912.01	0.05 mg/kg to 2.5 mg/kg
		Zinc	AOAC 999.10	0.05 mg/kg to 2.5 mg/kg
		Cadmium	AOAC 999.11	0.05 mg/kg to 2.5 mg/kg
		Tin	AOAC 980.19	0.05 mg/kg to 2.5 mg/kg
10.	Cereals and cereal products (Atta, Maida, Semoleina (Suji or Rawa), Besan	Extraneous matter, insect fragments, insect infestation	IS 1155	0.03% to 3.0%
		Moisture	IS 1155 IS 1009 IS 1010 IS 2400	0.01% to 30.0%
		Total Ash	IS 1155 IS 1009 IS 1010 IS 2400	0.01% to 20.0%

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		Ash Insoluble in Dilute HCl	IS 1155 IS 1009 IS 1010 IS 2400	0.01% to 20.0%
		Gluten	IS 1155 IS 1009 IS 1010	0.1% to 20.0%
		Total Protein (Nx6.25)	IS 2400 IS 7219	0.1% to 50.0%
		Crude Fibre	IS 1155 FSSAI Lab Manual D-8.8	0.01% to 30.0%
		Calcium Carbonate	IS 4285	0.10% to 10.0%
		Iron	AOAC 985.35	0.5 mg/kg to 5.0 mg/kg
		Thiamine	DTRL-STPART-QCC-188	1.0 mg/kg to 100.0 mg/kg
		Riboflavin	DTRL-STPART-QCC-196	1.0 mg/kg to 100.0 mg/kg
		Granularity	IS 1155	0.01% to 10.0 %
		Rodent hair & Excreta	FSSAI Lab Manual 1st Ed. D-1.5	0.01% to 10.0 %
11.	<b>Biscuit</b>	Moisture	IS 1011	0.01% to 30.0%
		Acid insoluble ash	IS 1011	0.01% to 20.0%
		Acidity of extracted fat	IS 1011	0.05% to 50.0%
12.	<b>Namkeen, Fried Potato Chips, Ready-To-Eat Extruded Snacks</b>	Moisture	IS 15271 IS 15575 IS12566	0.01% to 30.0%
		Acid insoluble ash	IS 15271 IS 15575	0.01% to 20.0%
		Fat	IS15271 IS 15575 IS 12566	1.0% to 80%
		Peroxide value	IS15271 IS 15575	0.20 to 80.0 mg/100gm
13.	<b>Honey</b>	Specific gravity	IS 12566 IS 4941	1.21 to 1.50

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		Moisture content	IS 4941 Method B2	13.0% to 25.0%
		Total reducing sugar	IS 4941	1.0 % to 90.0%
		HMF content	IS 4941	0.20 mg/kg to 150.0 mg/kg
		Sucrose	IS 4941	0.10% to 90.0%
		Fructose-Glucose ratio	IS 4941	0.50% to 1.30%
		Ash content	IS 4941	0.01% to 5.0%
		Acidity (as Farmic acid)	IS 4941	0.02% to 0.60%
		Fiehe's tests	IS 4941	Present / Absent
		Optical density	IS 4941	0.01 to 1.50
		Lead	AOAC 999.10	1.0 mg/kg to 100 mg/kg
		Copper	AOAC 999.10	1.0 mg/kg to 100 mg/kg
		Mercury	AOAC 2013.06	1.0 mg/kg to 100 mg/kg
		Cadmium	AOAC 999.11	1.0 mg/kg to 100 mg/kg
		Tin	AOAC 980.19	1.0 mg/kg to 100 mg/kg
		Arsenic	AOAC 912.01	1.0 mg/kg to 100 mg/kg
14.	Processed Cereal Based complementary food	Protein	IS 7219	0.10 % to 50.0%
		Moisture	IS 11623 IS 16072	0.01 % to 10.0%
		Total Carbohydrates, % by mass	IS 1656 Amd-1	20.0% to 80.0%
		Total Ash	IS 14433 Amd.2	0.01% to 20.0%
		Acid Insoluble Ash	IS 14433 Amd. 2	0.01% to 10.0%
		Crude Fibre (On dry basis)	IS 10226	0.01% to 20.0%
		Lead	AOAC 999.10, IS 12074	1.0 mg/kg to 100 mg/kg
		Tin	AOAC 980.19, IS 2860	1.0 mg/kg to 100 mg/kg
		Cadmium	AOAC 999.11, IS 1699	1.0 mg/kg to 100 mg/kg
		Vitamin A	IS 5886	10.0 mg/kg to 500 mg/kg

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		Added Vitamin D <sub>3</sub> expressed as Cholecalciferol	STP NO. DTRL-STPART-QCC-184	0.012 to 30µg/100g
		Iron	IS 14433 Amd-2 AOAC 990.05	2.50 mg/kg to 100 mg/kg
		Vitamin C	IS 5838	2.0 mg/kg to 900 mg/kg
15.	Chocolates (plain, blended white, filled, composite)	Total fat	IS 1163	0.10% to 50.0%
		Milk fat	IS 1163	0.10% to 15.0%
		Milk solids	IS 1163	0.10% to 15.0%
		Sugar (as sucrose)	IS 1163	0.1% to 99.9%
		Acid insoluble ash	IS 1163	0.01% to 10%
16.	Macroni products (Macaroni spaghetti Vermiculli, agg noodles )	Moisture	IS 1485	0.01% to 30%
		Total ash	IS 1485	0.01% to 20%
		Ash insoluble in dilute HCl	IS 1485	0.01% to 5.0%
17.	Sweetened Carbonated Beverages	Protein	IS 1485	0.01% to 10.0%
		Lead	IS 6854	0.25 mg/kg to 100 mg/kg
		Copper	IS 6854	0.25 mg/kg to 100 mg/kg
		Arsenic	IS 6854	0.25 mg/kg to 100 mg/kg
		Iron	IS 6854	0.25 mg/kg to 100 mg/kg
18.	Alcoholic beverages (Beer, Whiskey, Vodka, Rum, Gin)	Residue on evaporation	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	0.01% to 25.0%
		Total acid (as tartaric acid)	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	0.01% to 10.0%
		Volatile acids (as acetic acid)	IS : 4100 IS : 4449	20.0 to 1000g/100ml

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			IS : 5286 IS : 3811 IS : 3752	
		Ester as ethyl acetate	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	0.1 to 20.0 g/litre
		Aldehyde as acetaldehyde	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	10.0 to 50.0 g /litre
		Higher Alcohol as amyl alcohol	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	10.0 to 250 g/litre
		Furfural	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	10.0 to 20.0 g/litre
		Copper	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	1.0 to 10.0 mg/litre
		Methyl Alcohol	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752	0.50 to 80.0 g/100 litre



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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
			IS : 3865	
		Ethyl alcohol	IS : 4100 IS : 4449 IS : 5286 IS : 3811 IS : 3752 IS : 3865	0 to 50.0%/v
		pH	IS : 3865	0 to 14
		Carbon Dioxide	IS : 3865	0.50% to 25.0%
		Added Colour Excepted Caramel	FSSAI Lab Manual E-4.0	Present / Absent
19.	<b>Edible Common Salt Iodised salt, Iron Fortified Common Salt, Potassium Iodate</b>	Particle Size	IS 253	90% to 100%
		Moisture	IS 253	1.0% to 99.0%
		Sodium Chloride (NaCl)	IS 253 IS 7224	0.01% to 100.0%
		Matter Soluble in Water other than sodium chloride	IS 253 IS 7224	0.015% to 20.0%
		Water insoluble matter	IS 253 IS 7224	0.01% to 20.0%
		Iodine Content	IS 7224	1.0 mg/kg to 100 mg/kg
		Calcium (as Ca)	IS 253 IS 7224	0.01 % to 20.0%
		Alkalinity as (Na <sub>2</sub> CO <sub>3</sub> )	IS 253 IS 7224	0.01 % to 20.0%
		Sulphate as (SO <sub>4</sub> )	IS 253 IS 7224	0.01 % to 20.0%
		Magnesium as (Mg)	IS 253 IS 7224	0.01 % to 20.0%
		Solubility in water	IS 253	1.0% to 99.0%
		Iron Content	IS 253 IS 7224	Present / Absent (50.0 mg/kg)

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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
		Lead	IS 253 IS 7224	Present / Absent (2.5mg/kg)
		Copper	IS 253 IS 7224	Present / Absent (2.0 mg/kg)
		Arsenic	IS 253 IS 7224	Present / Absent (1.0 mg/kg)
20.	Sugar and Sugar Products Sweet, (Confectionery Products, Sugar boiled confectionery, Milk toffee, Butter toffee, Chewing gum, Bubble gum)	Loss on drying	IS 15279/ IS 874	0.50% to 60.0%
		Reducing Sugar	IS 6287	0.01% to 99.9%
		Acid Insoluble Ash	IS 6287	0.05% to 20.0%
		Sucrose	IS 6287	0.50% to 99.9%
		Sulphur dioxide	IS 4706(Part-2) AOAC-990.28 FSSAI Lab Manual E-2.5	1.0 mg/kg to 2000 mg/kg
		Lead	AOAC 999.10	0.25 mg/kg to 100 mg/kg
		Tin	AOAC 980.19	5.0 mg/kg to 100 mg/kg
		Chromium	IS 15279	1.0 mg/kg to 100 mg/kg
		Copper	AOAC 999.10	2.50 mg/kg to 100 mg/kg
		Arsenic	AOAC 912.01	0.50 mg/kg to 100 mg/kg
		Zinc	AOAC 999.10	2.50 mg/kg to 100 mg/kg
		Mercury	AOAC 2013.06	0.10 mg/kg to 10.0 mg/kg
		Cadmium	IS 874, AOAC 999.11	0.10 mg/kg to 100 mg/kg
21.	Syrup/ Sharbat	Sulphur Dioxide	IS : 4935 FSSAI Lab Manual C-17.7	50 mg/L to 600 mg/L
		Benzoic Acid	IS : 4935	50 mg/L to 600 mg/L
		Total Soluble Solid	IS : 4935	50% to 90.0%
		Arsenic	IS : 4935 IS : 2860	0.50 mg/kg to 100 mg/kg
		Lead	IS : 4935 IS : 2860	0.50 mg/kg to 100 mg/kg
		Copper	IS : 4935 IS : 2860	0.50 mg/kg to 100 mg/kg

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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
		Zinc	IS : 4935 IS : 2860	0.50 mg/kg to 100 mg/kg
		Tin	IS : 4935 IS : 2860	0.50 mg/kg to 100 mg/kg
<b>VII.</b>	<b>PESTICIDE FORMULATIONS</b>			
<b>1.</b>	<b>Acephate (Technical)</b>	Acephate Content	IS 12915 Annex A (By GC)	1% to 99%
		Melting point (Cl.no. 6)	IS 6940	40 °C to 150°C
		Material Insoluble in water	IS 6940(Cl.no.9)	0.05% to 5%
		Acidity	IS 6940(Cl.no.11.3)	0.02% to 5%
<b>2.</b>	<b>Acephate S.P.</b>	Acephate content	IS 12915 Annex A (By GC)	1% to 99%
		Acidity	IS 6940(Cl.no.11.3)	0.02% to 5%
<b>3.</b>	<b>Atrazine Technical</b>	Active Ingredient	IS 12932 (By HPLC) (Annex-B)	1% to 99%
		Ionic chloride	IS 12932(Annex-C)	1% to 5%
		Moisture	IS 6940(Cl(Cl.no.6).no.4.1)	0.1% to 5%
		Melting point	IS 6940	175 °C to 177°C
<b>4.</b>	<b>Atrazine W.P.</b>	Active Ingredient	IS 12932 (By HPLC) (Annex-B)	1% to 99%
		Sieving	IS 6940 (Cl.no.11.1)	1% to 99%
		Suspensibility	IS 6940 (Cl.no.11.2)	10% to 95%
		Alkalinity	IS 6940 (Cl.no.11.3.2)	0.05% to 4%
		Wettability	IS 6940 (Cl.no.11.4)	5 sec.to 120 sec.
<b>5.</b>	<b>Anilophos Technical</b>	Active Ingredient	IS 13402 (GC) (Annex-A)	1% to 99%
		Moisture	IS 6940(Cl.no.4.1)	0.1% to 5%
		Material insoluble in acetone	IS 6940(Cl.no.9)	0.05% to 10%
		Acidity	IS 6940(Cl.no.11.3)	0.02% to 4%
<b>6.</b>	<b>Anilophos E.C.</b>	Active Ingredient	IS 13402(GC) (Annex-A)	1% to 99%
		Alkalinity	IS 6940(Cl.no.11.3)	0.02% to 4%

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		Cold test	IS 6940(CI.no.13.1)	Qualitative
		Flash point	IS:1448[Part:20]	10 °C to 100 °C
		Emulsion stability	IS 13402(CI.no.13.3)	Qualitative
7.	Cyper-methrin Technical	Active ingredient	IS 12015(by HPLC) (Appendix-A)	1% to 99%
		Cis-Trans Ratio	IS 12015(Appendix-B)	10% to 90%
		Acidity	IS 6940(CI.no.11.3.2)	0.02% to 4%
		Moisture content	IS 6940(CI.no.4.1)	0.05% to 4%
8.	Cyper-methrin E.C.	Active ingredient	IS 12015(by HPLC) (Appendix-A)	1% to 99%
		Acidity	IS 6940(CI.no.11.3)	0.02% to 4%
		Cold	IS 6940 test (CI.no.13.1)	Qualitative
		Emulsion stability	IS 6940(CI.no.13.3)	Qualitative
		Flash point	IS 1448[Part:20]	10 °C to 60 °C
9.	Isoproturon Technical	Active content,% m/m	IS 12004(BY HPLC) (Appendix-A)	0.1% to 99.9%
		Acidity (H <sub>2</sub> SO <sub>4</sub> /Alkalinity NaOH), %m/m	IS 6940(CI.no.11.3)	0.05% to 5%
		Water content m/m	IS 6940(CI.no.4)	0.05% to 5%
		Melting point °C	IS 6940 (CI.no.6)	10 °C to 250°C
10.	Isoproturon W.P.	Active content,% m/m	IS 12004(BY HPLC) (Appendix-A)	0.1% to 99.9%
		Acidity (H <sub>2</sub> SO <sub>4</sub> /Alkalinity NaOH), %m/m	IS 6940(CI.no.11.3)	0.05% to 5%
		Sieving requirement, 75 micron % m/m	IS 6940(CI.no.11.1)	0.5% to 100%
		Suspensibility, %m/m	IS 6940(CI.no.11.2)	10% to 100%
		Wettability, Sec	IS 6940(CI.no.11.4)	1 sec to 300 sec
11.	Malathion W.D.P	Active Ingredient	IS 1832 (Appendix-A) (By U.V. Spectrophotometer)	1% to 99%
		Sieving 75 micron	IS 6940(CI.no.13.4)	1% to 99%
		Suspensibility	IS 6940(CI.no.11.2)	10% to 90%

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12.	<b>Malathion E.C.</b>	Acidity	IS 6940(Cl.no.11.3)	0.02% to 4%
		Active Ingredient	IS 1832(Appendix-A) (By U.V. Spectrophotometer)	1% to 99%
		Cold test	IS 6940( Cl.no.13.1)	Qualitative
		Flash point	IS 1448	10 °C to 100 °C
		Emulsion stability	IS 6940(Cl.no.13.3)	Qualitative
13.	<b>Malathion D.P.</b>	Acidity	IS 6940(Cl.no.11.3)	0.02% to 4%
		Active content	IS 1832 (Appendix-A) (By U.V. Spectrophotometer)	1% to 99%
		Acidity (H <sub>2</sub> SO <sub>4</sub> ) / Alkalinity (NaOH)	IS 6940(Cl.no.11.3)	0.02% to 4%
		Sieving requirement, 75 micron % m/m	IS 6940 (Cl.no.11.1)	1% to 99%
		Bulk density	IS 6940(Cl.no.12.2)	1 gm/ml to 70 gm/ml
14.	<b>Malathion Technical</b>	Active content	IS 1832( Appendix-A) (By U.V. Spectrophotometer)	1% to 99%
		Acidity(H <sub>2</sub> SO <sub>4</sub> ) / Alkalinity (NaOH)	IS 6940 (Cl.no.11.3)	0.02% to 4%
		Moisture content	IS 6940(Cl.no.4.1)	0.01% to 10%
		Material insoluble in acetone	IS 6940(Cl.no.9)	0.1% to 10%
		Specific Gravity	IS 6940(Cl.no.5)	1 to 1.5 gm/ml
15.	<b>Mono-Crotophos S.L.</b>	Active Ingredient	IS 8025(Annex-B) (By U.V. Spectrophotometer)	1% to 99%
		Free MMA	IS 8025( Annex-C)	0.2% to 8%
		Acidity	IS-6940(Cl.no.13.5.4)	0.02% to 4%
		Cold Test	IS-6940(Cl.no.13.1)	Qualitative
		Flash Point	IS 1448	10 °C to 100°C
16.	<b>Mono-crotophos Technical</b>	Active Ingredient	IS 8025 (Annex-B) (By U.V. Spectrophotometer)	1% to 99%
		Free MMA	IS 8025( Annex-C)	0.2% to 8%
		Acidity	IS-6940(Cl.no.13.5.4)	0.02% to 4%

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<b>VIII.</b>	<b>DRUGS &amp; PHARMACEUTICALS</b>			
<b>A.</b>	<b>Raw Materials</b>			
<b>1.</b>	<b>Diclofenac Sodium I.P.</b>	Identification	I.P.	Qualitative tests
		Appearance of solution	I.P.	Qualitative tests
		pH	I.P.Appendix 2.4.24 Page No. 169	1.0 to 14.0
		Light Absorption	I.P. Appendix 2.4.7 Page No. 139	Qualitative tests
		Related Substances	I.P. Appendix 2.4.14 Page No. 152	Qualitative tests
		Heavy Metals	I.P. Appendix 2.3.13 Page No. 96	Qualitative tests
		Loss on Drying	I.P.Appendix 2.4.19 Page No. 162	0.1 % to 20.0 %
<b>2.</b>	<b>Albendazole I.P.</b>	Identification	I.P. Page No. 1004	Qualitative tests
		Related Substances	I.P. Appendix 2.4.14 Page No. 152	Qualitative tests
		Heavy Metals	I.P. Appendix 2.3.13 Page No. 96	Qualitative tests
		Sulphated Ash	I.P.Appendix 2.3.18 Page No. 98	0.01% to 10.0%
		Loss on Drying	I.P. Appendix 2.4.19 Page No. 162	0.1% to 20.0%
		Assay	I.P. Page No. 1005	80%-120%
<b>3.</b>	<b>Ethambutol Hydrochloride I.P.</b>	Identification	I.P. Page No. 1695	Qualitative tests
		pH	I.P. Appendix 2.4.24 Page No. 169	1.0 to 14.0
		Specific Optical Rotation	I.P.Appendix 2.4.22 Page No. 167	$\pm 0^\circ$ to $\pm 360^\circ$
		Heavy metals	I.P. Appendix 2.3.13 Page No. 96	Qualitative tests

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		Sulphated ash	I.P. Appendix 2.3.18 Page No. 98	0.01% to 10.0%
		Assay	I.P. Page No. 1696	80% to 120%
4.	Diphenhydramine Hydrochloride I.P.	Identification	I.P. Page No. 1587	Qualitative tests
		Appearance of solution	I.P. Appendix 2.4.1 Page No. 129	Qualitative tests
		pH	I.P. Appendix 2.4.24 Page No. 169	1.0 to 14.0
		Sulphated Ash	I.P. Appendix 2.3.18 Page No. 98	0.01% to 10.0%
		Loss on drying	I.P. Appendix 2.4.19 Page No. 162	0.1% to 20.0%
5.	Dexamethasone Sodium Phosphate I.P.	Identification	I.P. Page No. 1525	Qualitative tests
		pH	I.P. Appendix 2.4.24 Page No. 169	1.0 to 14.0
		Specific Optical Rotation	I.P. Appendix 2.4.22 Page No. 167	$\pm 0^\circ$ to $\pm 360^\circ$
		Ethanol (by GC)	I.P. Appendix 2.4.13 Page No. 149	0.1 % to 10.0%
		Total Ethanol & Water	I.P. Appendix 2.3.13 Page No. 149 + Appendix 2.3.43 Page No. 116	0.5 % to 35.0 %
		Assay	I.P. Page No. 1526	80%-120%
6.	Ciprofloxacin Hydrochloride I.P.	Identification	I.P. Page No. 1402	Qualitative tests
		pH	I.P. Appendix 2.4.24 Page No. 169	1.0 to 14.0
		Heavy Metals	I.P. Appendix 2.3.13 Page No. 96	Qualitative tests
		Sulphates	I.P. Appendix 2.3.17 Page No. 98	Qualitative tests
		Sulphated Ash	I.P. Appendix 2.3.18 Page No. 98	0.01% to 10.0%

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		Related substances	I.P. Appendix 2.3.14 Page No. 152	0.01 % to 1.0 %
		Water	I.P. - Appendix 2.3.43 Page No. 113	0.5% to 35.0%
		Assay	I.P. - Appendix 2.3.18 Page No. 1402	80% to 120%
7.	<b>Enalapril Maleate I.P.</b>	Identification	I.P. Page No. 1655	Qualitative tests
		Specific Optical Rotation	I.P. Appendix 2.4.22 Page No. 167	$\pm 0^\circ$ to $\pm 360^\circ$
		Heavy Metals	I.P. Appendix 2.3.13 Page No. 96	Qualitative tests
		Sulphated Ash	I.P. Appendix 2.3.18 Page No. 98	0.01% to 10.0%
		Loss on Drying	I.P. Appendix 2.4.19 Page No. 162	0.1% to 20.0%
8.	<b>Glycerin</b>	Aldehydes & reducing substances	IP Vol. II Pg.1870	Qualitative tests
		Sugars	IP Vol. II Pg.1870	Qualitative tests
		Assay	IP Vol. II Pg.1870	80%-120%
9.	<b>Ascorbic Acid</b>	Identification	I.P. Page No. 1086	Qualitative tests
		Specific Optical Rotation	I.P. Appendix 2.4.22 Page No. 167	$\pm 0^\circ$ to $\pm 360^\circ$
		pH	I.P. Appendix 2.4.24 Page No. 169	1.0 to 14.0
		Assay (by Iodometric titration)	IP Vol. II Pg.1086	80% to 120%
10.	<b>Sorbitol</b>	Appearance of solution	I.P. Appendix 2.4.1 Page No. 129	Qualitative tests
		Heavy Metals	I.P. Appendix 2.3.13 Page No. 96	Qualitative tests
		Sulphate	I.P. Appendix 2.3.17 Page No. 98	Qualitative tests



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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
		Sulphated ash	I.P. Appendix 2.3.18 Page No. 98	0.01% to 10.0%
		Water	I.P. Appendix 2.3.43 Page No. 113	0.5% to 35.0%
		Nickel	IP Vol. III Pg.2779	Qualitative tests
		Reducing sugars	IP Vol. III Pg.2779	Qualitative tests
11.	Calcium Carbonate	Loss on Drying	I.P Appendix 2.4.19 Page No. 162	0.1% to 20.0%
		Iron	I.P. Appendix 2.3.14 Page No. 97	Qualitative tests
		Chloride	I.P. Appendix 2.3.12 Page No. 96	Qualitative tests
		Assay (by Titration)	IP Vol. II Pg.1248	80% to 120%
12.	Betamethasone Sodium Phosphate	Assay (by UV)	IP Vol. II Pg.1177	80% to 120%
13.	Ammonium Chloride	Assay (by Titration)	IP Vol. II Pg.1049-50	80% to 120%
14.	Boric Acid	Assay (by Titration)	IP Vol. II Pg.1200	80% to 120%
15.	Aspartame	Assay (by non aqueous titration)	IP Vol. II Pg. 1090	80% to 120%
16.	Calcium Gluconate	Assay (by Titration)	IP Vol. II Pg.1254	80% to 120%
17.	Dibasic Calcium Phosphate	Assay (by Titration)	IP Vol. II Pg.1259	80% to 120%
18.	Clotrimazole	Assay (by Titration)	IP Vol. II Pg.1443	80% to 120%
19.	Cinnarizine	Assay (by non aqueous titration)	IP Vol. II Pg.1398	80% to 120%
20.	Citric acid	Assay (by Titration)	IP Vol. II Pg.1410	80% to 120%
21.	Cyproheptadine Hydrochloride	Assay (by Titration)	IP Vol. II Pg.1490	80% to 120%
22.	Domperidone	Assay (by Titration)	IP Vol. II Pg.1612	80% to 120%
23.	Disodium Edetate	Assay (by Titration)	IP Vol-II pg-1594-95	80% to 120%
24.	Ferrous Fumarate	Assay (by Titration)	IP Vol. II Pg.1750	80% to 120%

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25.	Ibuprofen	Assay (by Titration)	IP Vol. II Pg.1943	80% to 120%
26.	Iodine	Assay (by Titration)	IP Vol. II Pg.1988	80% to 120%
27.	Microcrystalline cellulose	Assay (by Titration)	IP Vol. II Pg.2230	80% to 120%
28.	Nicotinamide	Assay (by Titration)	IP Vol. III Pg.2333	80% to 120%
29.	Povidone Iodine	Assay (by Titration)	IP Vol. III Pg.2530	80 % to 120%
30.	Pseudoephedrine Hydrochloride	Assay (by Titration)	IP Vol. III Pg.2593	80% to 120%
31.	Pyridoxine Hydrochloride	Assay (by Titration)	IP Vol. III Pg.2601	80% to 120%
32.	Riboflavine Sodium Phosphate	Assay (by UV)	IP Vol. III Pg.2658	80% to 120%
33.	Riboflavine	Assay (by UV)	IP Vol. III Pg.2657	80% to 120%
34.	Saccharin	Assay (by Titration)	IP Vol. III Pg.2696	80% to 120%
35.	Sodium benzoate	Assay (by Titration)	IP Vol. III Pg.2738	80% to 120%
36.	Sodium citrate	Assay (by Titration)	IP Vol. III Pg.2747	80% to 120%
37.	Tinidazole	Assay (by Titration)	IP Vol. III Pg.2875	80% to 120%
38.	Zinc Oxide	Assay (by Titration)	IP Vol. III Pg.3011	80% to 120%
39.	Zinc Sulphate	Assay (by Titration)	IP Vol. III Pg.3013	80% to 120%
40.	Paracetamol	Assay (by Titration)	IP Vol. III Pg.2430	80% to 120%
B.	Finish Products			
1.	Acebutolol Tablets IP	Assay by UV	IP Vol. II Pg. 981	50% to 110%
2.	Acetic Acid Ear Drops IP	Assay by Titration	IP Vol. II Pg. 987	50% to 110%
3.	Aciclovir Intravenous Infusion IP	Assay by UV	IP Vol. II Pg. 991	50% to 110%
4.	Aciclovir Tablets IP	Assay by UV	IP Vol. II Pg. 993	50% to 110%
5.	Albendazole Tablets IP	Assay by UV	IP Vol. II Pg. 1006	50% to 110%

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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
6.	Amantidine Capsules IP	Assay by Non aqueous Titration	IP Vol. II Pg. 1025	50% to 110%
7.	Aminocaproic Acid Injection IP	Assay by Non aqueous Titration	IP Vol. II Pg. 1032	50% to 110%
8.	Aminocaproic Acid Tablets IP	Assay by Non aqueous Titration	IP Vol. II Pg. 1033	50% to 110%
9.	Bromhexine Hydrochloride Tablets IP	Assay by UV	IP Vol. II Pg. 1204	50% to 110%
10.	Cyproheptadine Tablets IP	Assay by UV	IP Vol. II Pg.1491	50% to 110%
11.	Amoxycillin capsules IP	Identification (By IR)	IP Vol. Pg. 1055-1056	Qualitative
		Dissolution	IP Vol. Pg.1055-1056	50.0% to 120.0%
		Assay (By HPLC)	IP Vol. Pg. 1055-1056	50.0% to 110.0%
12.	Ofloxacin tablets IP	Identification By IR	IP Pg. 2369-2370	Qualitative
		Dissolution (By UV)	IP Pg. 2369-2370	50.0% to 120.0%
		Related Substances (By HPLC)	IP Pg. 2369-2370	0.05% to 5%
		Assay (By HPLC)	IP Pg. 2369-2370	50.0% to 110.0%
13.	Azithromycin Tablets IP	Identification (By HPLC)	IP Pg. 1121-1123	Qualitative
		Dissolution (BY HPLC)	IP Pg. 1121-1123	50.0% to 120.0%
		Related substances (By HPLC)		
		Impurity B	IP Pg. 1121-1123	0.05% to 5%
		Total Impurity		0.1% to 10%
		Assay	IP Pg. 1121-1123	50.0% to 110.0%
14.	Cefpodoxime tablets IP	Identification (By HPLC)	IP Pg. 1317-1318	Qualitative
		Dissolution (By UV)	IP Pg. 1317-1318	50.0% to 120.0%
		Assay (by HPLC)	IP Pg. 1317-1318	50.0% to 110.0%
15.	Cefixime Tablets IP	Identification (By HPLC)	IP page no. 1307-1308	Qualitative
		Dissolution (By UV)		50.0% to 120.0%
		Assay (By HPLC)		50.0% to 110.0%

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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
16.	Ciprofloxacin Tablets IP	Identification A (By IR)	IP	Qualitative
		Identification B (By TLC)	IP	Qualitative
		Dissolution (By UV)	IP	50.0% to 120.0%
		Assay (By HPLC)	IP	50.0% to 110.0%
17.	Xylometazoline Nasal Drops	Identification	IP	Qualitative
		pH	IP	1 to 14
		Assay	IP	50.0% to 110.0%
18.	Hydrogen peroxide Solution IP	Identification A & B By chemically	IP Pg. 1912-1913	Qualitative
		Acidity	IP Pg. 1912-1913	--
		Assay (By Titration)	IP Pg. 1912-1913	13.5% to 56.7.0%
19.	Iron folic acid tab IP	Identification for folic acid (By HPLC)	IP	Qualitative
		Uniformity of content-	IP	70.0% to 130.0%
		Assay- For dried ferrous sulphate eq. to Ferrous iron (Chemically)	IP	50.0% to 110.0%
		For folic acid (from UC)	IP	70.0% to 130.0%
20.	Alprazolam Tablets IP	Identification (By HPLC)	IP Pg. 1017-1018	Qualitative
		Dissolution (By HPLC)	IP Pg. 1017-1018	50.0% to 120.0%
		Uniformity of content (By HPLC)	IP Pg. 1017-1018	70.0% to 130.0%
		Assay (By HPLC)	IP Pg. 1017-1018	50.0% to 110.0%
21.	Cetirizine Tablets IP	Identification (By HPLC)	IP Pg. 1341 – 1342	Qualitative
		Dissolution (By UV)	IP Pg. 1341 – 1342	50.0% to 120.0%
		Related substances (By HPLC)		
		Any impurity	IP Pg. 1341 – 1342	0.05% to 5%
		Total impurity		0.05% to 5%
		Uniformity of content	IP Pg. 1341 – 1342	70.0% to 130.0%
		Assay (By HPLC)	IP Pg. 1341 – 1342	50.0% to 110.0%

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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
22.	Povidone Iodine ointment USP	Identification A & B Chemically	USP Vol. 3A Pg No. 5484	Qualitative
		PH	USP Vol. 3A Pg No. 5484	1 to 14
		Assay (By titration)	USP Vol. 3A Pg No. 5484	50.0% to 110.0%
23.	Calcium with Vitamin D Tablets USP	Identification	USP Vol. 4 pg no. 6529-6530	Qualitative
		Dissolution (for calcium) by AAS	USP Vol. 4 pg no. 6529-6530	50.0% to 110.0%
		Assay: -Calcium (by AAS)	USP Vol. 4 pg no. 6529-6530	50.0% to 110.0%
		-Vitamin D (by HPLC)	USP Vol. 4 pg no. 6529-6530	50.0% to 110.0%
24.	Amoxicillin & Potassium clavunate tablets	Identification (By HPLC)	IP	Qualitative
		Disintegration time	IP	0 to 30 min
		Dissolution (By HPLC) For Amoxicillin	IP	50.0% to 120.0%
		For clavulanic acid	IP	50.0% to 120.0%
		Uniformity of content	IP	70.0% to 130.0%
		Water	IP	0.50% to 35.0%
		Assay (By HPLC) For Amoxycillin	IP	50.0% to 110.0%
		For clavulanic acid		50.0% to 110.0%
25.	Aspirin Tablets	Identification (By Chemically)	IP	Qualitative
		Dissolution (by UV)	IP	50.0% to 120.0%
		Salicylic acid (by chemically)	IP	Qualitative
		Assay (By chemically)	IP	50.0% to 110.0%
26.	Diclofenac Sodium Injection	Identification by (by TLC)	IP	Qualitative
		pH	IP	1 to 14
		Assay (By HPLC)	IP	50.0% to 110.0%

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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
27.	<b>Ceftriaxone Injection</b>	Identification A (By IR)	IP	Qualitative
		Identification B (By HPLC)	IP	Qualitative
		Identification C (By Chemically)	IP	Qualitative
		pH	IP	1 to 14
		Related substance (By HPLC)	IP	0.05% to 5 %
		Any Max. Impurity		
		Total Impurity	IP	0.05% to 10.0%
28.	<b>Dicyclomine Tablets</b>	Water	IP	0.5% to 35.0%
		Assay (by HPLC)	IP	50.0% to 110.0%
		Identification (By IR)	IP	Qualitative
		Identification b & C (By chemically)	IP	Qualitative
		Disintegration time	IP	0 to 30
		Related substances (By TLC)	IP	Qualitative
		Assay	IP	50.0% to 110.0%
29.	<b>Metformin Tablets</b>	Identification A (By IR)	IP	Qualitative
		Identification B & C (By chemically)	IP	Qualitative
		Related substance (By HPLC)	IP	0.05% to 5%
		Dicyandiamide		
		Any other Max. Imp.	IP	0.05% to 5%
		Dissolution (By UV)	IP	50.0% to 120.0%
		Assay (By UV)	IP	50.0% to 110.0%
30.	<b>Clotrimazole Cream</b>	Identification A (By UV)	IP	Qualitative
		Identification B (By TLC)	IP	Qualitative
		Assay (By HPLC)	IP	50.0% to 110.0%

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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
31.	Paracetamol Syrup	Identification A (By TLC)	IP	Qualitative
		Identification B (By HPLC)	IP	Qualitative
		4-Aminophenol (By HPLC)	IP	0.05% to 5%
		Assay (By HPLC)	IP	50.0% to 110.0%
32.	Paracetamol Tablets	Identification A (By IR)	IP Add 2016 pg no. 4232	Qualitative
		Identification B (Chemically)	IP Add 2016 pg no. 4232	Qualitative
		Related substances (By HPLC)	IP Add 2016 pg no. 4232	- 0.05% to 2%
		(i) 4-aminophenol		
		(ii)4-chloroacetanilide	IP Add 2016 pg no. 4232	1 ppm to 20 ppm
		(iii)Any other Max. Imp.	IP Add 2016 pg no. 4232	0.05% to 2%
		Dissolution (By UV)	IP Add 2016 pg no. 4232	50.0% to 120%
		Assay (By UV)	IP Add 2016 pg no. 4232	50.0% to 110.0%
33.	Oral Rehydration salt	Identification A, B C, D (By Chemically)	IP	Qualitative
		Assay- For sodium (By AAS)	IP	0.05 g to 20 g
		For Potassium (By AAS)	IP	0.05 g to 20 g
		For total Chloride & citrate (by chemically)	IP	50.0% to 110.0%
		For Dextrose (SOR By chemically)	IP	50.0% to 110.0%
				0 ° ± 360°
C. Ayurvedic Products (Drugs of vegetables origin)				
1.	Churan	Total ash	API, Part II, Vol-1, Appendix 2.2.3	0.1% to 30%
		Acid insoluble ash	API, Part II, Vol-1, Appendix 2.2.4	0.1% to 20%
		Alcohol soluble extractives	API, Part II, Vol-1, Appendix 2.2.7	0.1% to 80%

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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
		Water soluble extractives	API, Part II, Vol-1, Appendix 2.2.8	0.1% to 90%
2.	Tablet/Pills/Vati (Yogvati gugulu)	Loss on drying	API, Part II, Vol-1, Appendix 2.2.10	0.1% to 20%
		Total ash	API, Part II, Vol-1, Appendix 2.2.3	0.1% to 20%
		Acid insoluble ash	API, Part II, Vol-1, Appendix 2.2.4	0.1% to 80%
		Water soluble extractive	API, Part II, Vol-1, Appendix 2.2.8	0.2% to 90%
		Alcohol soluble extractive	API, Part II, Vol-1, Appendix 2.2.7	0.1% to 90%
		pH	API, Part II, Vol-1, Appendix 3.3	1.0 % to 14.0
3.	Bhasma/Pisti (Shankh Bhasam)	Loss on Drying	API, Part II, Vol-1, Appendix 2.2.10	0.1 % to 20%
		Total Ash	API, Part II, Vol-1, Appendix 2.2.3	0.1% to 100.0%
		Acid insoluble ash	API, Part II, Vol-1, Appendix 2.2.4	0.1% to 100.0%
4.	Liquid Asava/Syrup (Ashwagandhawris tha)	pH	API, Part II, Vol-1, Appendix 3.3	1.0 to 14.0
		Total Solid	API, Part II, Vol-1, Appendix 3.8	0.5% to 99%
		Total Sugar	API, Part II, Vol-1, Appendix 5.10.3	0.05% to 90.0%
5.	Semi solid preparations (Chyawanprash)	pH	API, Part II, Vol-1, Appendix 3.3	1 to 14
		Total Solid	API, Part II, Vol-1, Appendix 3.8	0.50% to 99.0%
		Total ash	API, Part II, Vol-1, Appendix 2.2.3	0.1% to 50.0%



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		Acid insoluble ash	API, Part II, Vol-1, Appendix 2.2.4	0.2% to 50.0%
		Water soluble extractive	API, Part II, Vol-1, Appendix 2.2.8	0.1% to 90.0%
		Alcohol soluble extractive	API, Part II, Vol-1, Appendix 2.2.7	0.1% to 90.0%
		Loss on drying	API, Part II, Vol-1, Appendix 2.2.10	0.1% to 20.0%

**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**.