

<b>Laboratory</b>	<b>Intertek India Private Limited (Food Services), #68, Udyog Vihar Phase-I, Gurgaon</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **I. FOOD & AGRICULTURAL PRODUCTS**

<b>1. Honey IS 4941: 1994, Reaff. 2009</b>	Specific gravity at 27°C	IS 4941: 1994 Reaff. 2009	1.25-1.55
	Moisture	IS 4941: 1994 Reaff. 2009	1.00-30.00%
	Total reducing sugar	IS 4941: 1994 Reaff. 2009	1.00-80.00%
	Sucrose	IS 4941: 1994 Reaff. 2009; IFS/C/STP/LC/009	0.20-20.00%
	Fructose	IS 4941: 1994 Reaff. 2009; IFS/C/STP/LC/009	1.00-50.00%
	Glucose	IS 4941: 1994 Reaff. 2009; IFS/C/STP/LC/009	1.00-50.00%
	Maltose	IFS/C/STP/LC/009	0.10-10.00%
	Glycerol	IFS/C/STP/LC/009	0.10-10.00%
	Fructose-glucose ratio	IS 4941: 1994 Reaff. 2009	0.50-2.00
	Ash	IS 4941: 1994 Reaff. 2009	0.10-10.00%
	Acid Insoluble Ash	IS: 6287: 1985 Reaff 2010	0.02-10.00%
	Acidity (as formic acid)	IS 4941: 1994 Reaff. 2009	0.01-2.00%
	Fiehe's Test	IS 4941: 1994 Reaff. 2009	Positive/Negative
	Hydroxymethyl furfural	IS 4941: 1994 Reaff. 2009, AOAC 980.23 (2012)	1.00-200.00mg/kg
Optical density at 660 nm	IS 4941: 1994 Reaff. 2009	0.10-0.90	

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	<b>Honey IS 4941: 1994, Reaff. 2009</b>	Color	IFS/C/STP/FC/001	0.1 -150 mm Pfund
		Cadmium	IFS/C/STP/AAS/001 AOAC 999.10 & 999.11	0.10-100.00 mg/kg
		Copper	IFS/C/STP/AAS/001 AOAC 999.10 & 999.11	0.10-100.00mg/kg
		Lead	IFS/C/STP/AAS/001 AOAC 999.10 & 999.11	0.10-100.00 mg/kg
		Mercury	IFS/C/STP/AAS/001	0.10-250.00mg/kg
		Sedimentation test	IFS/C/STP/FC/002	0.01-10.00%
		Diastase test	IFS/C/STP/FC/003	≥1 Schade/Gothe unit/DN
		Foreign matter	IFS/C/STP/FC/016	0.01-20.00%
	<b>Residual Pesticides Organochlorine Compounds</b>			
	Chlorobenzilate	IFS/C/STP/GC/004,		0.004-1.0 mg/kg
	Hexachlorobenzene	AOAC: 2007.01 : 19th ed. (2012)		0.004-1.0 mg/kg
	p,p-DDT			0.004-1.0 mg/kg
	O,p-DDT			0.004-1.0 mg/kg
	p,p-DDE			0.004-1.0 mg/kg
	p,p-DDD			0.004-1.0 mg/kg
	α-HCH			0.004-1.0 mg/kg
	β-HCH			0.004-1.0 mg/kg
	γ-HCH (Lindane)			0.004-1.0 mg/kg
	Vinclozolin			0.004-1.0 mg/kg
	Endosulphan			0.004-1.0 mg/kg
	Aldrin			0.004-1.0 mg/kg
	Dieldrin			0.004-1.0 mg/kg
	Heptachlor			0.004-1.0 mg/kg

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	<b>Honey</b> <b>IS 4941: 1994,</b> <b>Reaff. 2009</b>	<b>Organophosphorus Compounds</b>		
		Coumaphos	IFS/C/STP/LC/013	0.005-1.0 mg/kg
		Malathion		0.005-1.0 mg/kg
		Phosalone		0.005-1.0 mg/kg
		<b>Pyrethroids</b>		
		Cyfluthrin	IFS/C/STP/GC/004,	0.005-1.0 mg/kg
		Cypermethrin	AOAC: 2007.01 : 19th ed. (2012)	0.005-1.0 mg/kg
		Deltamethrin		0.005-1.0 mg/kg
		Permethrin		0.005-1.0 mg/kg
		Fenvalerate		0.005-1.0 mg/kg
		Fluvalinate		0.005-1.0 mg/kg
		Cyhalothrin		0.005-1.0 mg/kg
		<b>Carbamates</b>		
		Carbofuran	IFS/C/STP/LC/013,	0.005-1.0 mg/kg
		Propoxur		0.004-1.0 mg/kg
		Carbaryl		0.005-1.0 mg/kg
		<b>Miscellaneous</b>		
		Cymiazol	IFS/C/STP/LC/013	0.005-1.0 mg/kg
		Amitraz	IFS/C/STP/GC/004,	0.005-1.0 mg/kg
		Bromopropylate	AOAC: 2007.01 : 19th ed. (2012)	0.005-1.0 mg/kg
		Chinomethionate		0.005-1.0 mg/kg
		<b>Residual Antibiotics and Veterinary drugs</b>		
		<b>Chloramphenicol</b>	IFS/C/STP/LC/018	0.10-5.00 µg/kg
		<b>Nitrofurans</b>		
		Furazolidone (AOZ)	IFS/C/STP/LC/021	0.50-5.00 µg/kg
		Furaltadone (AMOZ)		0.50-5.00 µg/kg
		Nitrofurantoin(AHD).		0.50-5.00 µg/kg
	Nitrofurazone(SEM)		0.50-5.00 µg/kg	

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	<b>Honey IS 4941: 1994, Reaff. 2009</b>	<b>3Sulphonamide</b>		
		Sulfadimidine	IFS/C/STP/LC/014	5.00-200.00µg/kg
		Sulfadiazine		5.00-200.00µg/kg
		Sulfadimethoxine		5.00-200.00µg/kg
		Sulfadoxine		5.00-200.00µg/kg
		Sulfamerazine		5.00-200.00µg/kg
		Sulfanilamide		5.00-200.00µg/kg
		Sulfamethoxypyridazine		5.00-200.00µg/kg
		Sulfamethoxazole		5.00-200.00µg/kg
		Sulfathiazole		5.00-200.00µg/kg
		Trimethoprim		5.00-200.00µg/kg
		Sulfaguanidine		5.00-200.00µg/kg
		Sulfacetamide		5.00-200.00µg/kg
		Succinylsulfathiazole		5.00-200.00µg/kg
		Sulfaphenazole		5.00-200.00µg/kg
		Sulfaisomidine		5.00-200.00µg/kg
		Sulfapyridine		5.00-200.00µg/kg
		Sulfamer		5.00-200.00µg/kg
		Sulfachloropyridazine		5.00-200.00µg/kg
		sulfamonomethoxine		5.00-200.00µg/kg
		Sulfisoxazole		5.00-200.00µg/kg
		Sulfadoxine		5.00-200.00µg/kg
		Sulfaquinoxaline		5.00-200.00µg/kg
		Sulfabenzamide		5.00-200.00µg/kg
		Sulfamoxole		5.00-200.00µg/kg
		Sulfamethizole		5.00-200.00µg/kg
		Sulfaisoxazole		5.00-200.00µg/kg
		<b>Streptomycin</b>	IFS/C/STP/LC/023	10.00-200.00 µg/Kg
		<b>Antibiotics</b>		
		Tetracycline	IFS/C/STP/LC/016	5.00-200.00µg/kg
		Oxytetracycline		5.00-200.00µg/kg
		Chlortetracycline		5.00-200.00µg/kg
		Doxycycline		5.00-200.00µg/kg

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		<b>6Mycotoxin</b>		
		Aflatoxin G1	IFS/C/STP/LC/007	1.00-50.00µg/kg
		Aflatoxin G2		
		Aflatoxin B1		
		Aflatoxin B2		
		Ochratoxin	IFS/C/STP/LC/011	1.00-100.00 µg/kg
		Antibiotics		
		Tylosin A	IFS/C/STP/LC/064	10.00 – 100.00 µg/kg
		Dihydrostreptomycin	IFS/C/STP/LC/023	10.00 – 100.00 µg/kg
		Ciprofloxacin	IFS/C/STP/LC/058	10.00 – 100.00 µg/kg
		Enrofloxacin		10.00 – 100.00 µg/kg
		Norfloxacin		10.00 – 100.00 µg/kg
		Ofloxacin		10.00 – 100.00 µg/kg
		Metronidazole	IFS/C/STP/LC/065	1.0-50.00 µg/kg
<b>2.</b>	<b>Bakery and Confectionery</b>			
<b>A.</b>	<b>Bakery Products</b>	Moisture	IS: 1011; 2002 Reaff 2009, IS: 12711: 1989 Reaff. 2005	0.50-50.00%
	<b>Biscuits</b>	Ash	IS: 12711: 1989 Reaff. 2005	0.05-20.00%
	<b>IS 1011: 2002 Reaff 2009</b>			
	<b>Bread</b>	Acid insoluble ash	IS: 1011; 2002 Reaff 2009, IS: 12711: 1989 Reaff. 2005, IS 1483:1988 Reaff 2005	0.02-5.00%
	<b>IS 1483:1988 Reaff: 2005</b>			
	<b>Bakery products</b>	Total solid content	IS: 12711: 1989 Reaff. 2005, IS 1483:1988 Reaff 2005	5.00-95.00%
	<b>IS 12711: 1989 Reaff. 2005</b>			
	<b>Wafer</b>	Fat	IS: 12711: 1989, Reaff.2005	0.50 -60.00%
	<b>IS 2397 1988 Reaff 2010</b>	Protein	IS 7219: 1973 Reaff. 2005, IFS/C/STP/FC/011	0.50-50.00%

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	<b>Milk Bread: IS 11231: 1985, Reaff 2005</b>	Carbohydrate	IS 1656 - 2007 RA 2009, IFS/C/STP/FC/013	1.00-80.00%
		Energy	IFS/C/STP/FC/008	5-700 kCal/100gm
		Acidity of extracted fat	IS: 1011; 2002 Reaff 2009, IS: 12711: 1989 Reaff. 2005	0.05-10.00%
		Alcoholic acidity	IS: 12711: 1989 Reaff. 2005	0.020-10.000%
		Crude fiber	IS: 12711: 1989, Reaff 2005, IS 1483:1988 Reaff 2005, IS 10226 : Part I Reaff 2005, ISO 5498:1981	0.050-10.000%
		pH of aqueous extract	IS: 12711: 1989, Reaff 2005, IS 1483:1988 Reaff 2005	2.00-12.00
		Fruits in Fruit bread/Cake	IS: 12711: 1989, Reaff 2005	0.20-50.00%
		Peroxide Value / oxidative stability	IS: 12711: 1989, Reaff 2005; IFS/ C/SOP/FC/031	0.10-15.00 meq/kg
		Sucrose	IFS/C/STP/FC/010	0.50-50.00%
		Dietary Fibre	IS : 11062 :1984; Reaff 2005 / AOAC 985.29, 993.19 IFS/C/STP/FC/007	0.50-50.00%
		Cadmium	IFS/C/STP/AAS/002 AOAC 999.10, 999.11	0.02-1000.00 mg/kg
		Nickel	IFS/C/STP/AAS/002	0.50-5000.00 mg/kg
		Mercury	IFS/C/STP/AAS/002	0.20-500.00 kg

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	<b>Snacks (Namkeens and extruded snacks, biscuits and cookies)</b>	Oxidative stability	IFS/C/STP/FC/031	1-24 hrs
<b>B.</b>	<b>Chewing gum Chewing gum/ Bubble gum IS 6747: 985 Reaff 2005</b>	Organoleptic test	IS : 10642 : 1983 Reaff 2005	Qualitative
		Moisture	IS 6287: 1985 Reaff 2010, IS 1164 : 1986 Reaff 2012, IS 11923 :1986 Reaff 2012, IS 1163 :1992 Reaff :2009	0.10-40.00%
		Total Ash	IS 1164 : 1986 Reaff 2012, IS 11923 :1986 Reaff 2012	0.10-20.00 %
		Sulphated Ash	IS: 6287: 1985 Reaff 2010	0.10-20.00 %
		Acid insoluble ash	IS: 6287: 1985 Reaff 2010, IS 1163 :1992 Reaff :2009, IS 11923 :1986 Reaff 2012	0.05- 5.00 %
		Alkalinity of total Ash (K <sub>2</sub> O)	IS 1164 : 1986 Reaff 2012, IS 11923 :1986 Reaff 2012	0.05-10.00 %
		Sucrose	IS: 6287: 1985 Reaff 2010	1.00-80.00 %
		Gum base	IS 6747: 1985:Reaff 2005	1.00-99.00 %
		Reducing Sugar	IS 6287: 1985 Reaff 2010	1.00-90.00 %
		Sulphur di-oxide	IFS/C/STP/FC/005, AOAC 990.28	≥2mg/kg

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	<b>Chewing gum/ Bubble gum IS 6747: 985, Reaff 2005</b>	Fat	IS 6287: 1985 Reaff 2010, IS 11923 :1986 Reaff 2012	0.50 - 99.00 %
		Milk Fat	IS 1163 :1992 Reaff :2009	1.00-15.00 %
		Milk Solids Not Fat	IS 1163 :1992 Reaff :2009, Ammend. (2) 2011	1.00-50.00 %
		Cocoa butter	IS 1164 : 1986 Reaff 2012	1.00-99.00 %
		Protein	IS 6287: 1985 Reaff 2010, IS 7219: 1973 Reaff. 2005	0.50-80.00 %
		Lactose	IS: 1479: 1961 (P-II), Reaff 2009	1.00-80.00 %
		Crude fibre	IS 1164 : 1986 Reaff 2012, IS 10226 : Part I ;Reaf 2005 ISO 5498:1981, IS 11923 :1986 Reaff 2012	0.50-20.00 %
		Colors (Brilliant Blue FCF, Carmosine, Fast Green FCF, Erythrosine, Indigocarmine, Tartrazine, Sunset yellow FCF)	IFS/C/STP/FC/017	20.00-200.00 mg/kg
		Particle size	IS 11923 :1986 Reaff 2012	1 – 100% passing through 150 mesh
		Arsenic	IFS/C/STP/AAS/002	0.10-1000.00mg/kg
	Cadmium	IFS/C/STP/AAS/002 AOAC 999.10, 999.11	0.02-1000.00 mg/kg	



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	<b>Chewing gum/ Bubble gum IS 6747: 985 Reaff 2005</b>	Copper	IFS/C/STP/AAS/002 AOAC 999.10, 999.11	0.50-10000.00 mg/kg
		Lead	IFS/C/STP/AAS/002 AOAC 999.10, 999.11	0.10-1000.00 mg/kg
		Mercury	IFS/C/STP/AAS/002	0.10-5000.00 mg/kg
		Tin	IFS/C/STP/AAS/002	1.00-1000.00 mg/kg
		Zinc	IFS/C/STP/AAS/002	1.00-1000.00 mg/kg
<b>C.</b>	<b>Cocoa, Chocolate, Confectionary and by products</b>			
	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Organoleptic test	IS : 10642 : 1983 Reaff 2005	Qualitative
		Moisture	IS 6287: 1985 Reaff 2010, IS 1164 : 1986 Reaff 2012, IS 11923 :1986 Reaff 2012, IS 1163 :1992 Reaff :2009	0.50-40.00%
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Total Ash	IS 1164 : 1986 Reaff 2012, IS 11923 :1986 Reaff 2012	0.10-20.00 %
	<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Sulphated Ash	IS: 6287: 1985 Reaff 2010	0.10-20.00 %
		Acid insoluble ash	IS: 6287: 1985 Reaff 2010, IS 1163 :1992 Reaff :2009, IS 11923 :1986 Reaff 2007	0.05-10.00 %
		Alkalinity of total Ash (K2O)	IS 1164 : 1986 Reaff 2012, IS 11923 :1986 Reaff 2007	0.05-10.00 %
		Sucrose	IS: 6287: 1985 Reaff 2010	1.00-80.00 %

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	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Gum base	IS 6747: 1985:Reaff 2005	1.00-99.00 %
		Reducing Sugar	IS: 6287: 1985 Reaff 2010	1.00-80.00 %
		Sulphur di-oxide	IFS/C/STP/FC/005, AOAC 990.28	≥2mg/kg
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Fat	IS: 6287: 1985 Reaff 2010, IS 11923 :1986 Reaff 2007	0.50- 99.00 %
		<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Milk Fat	IS 1163 :1992 Reaff :2009
		Milk Solids	IS 1163 :1992 Reaff :2009	1.00-50.00 %
		Cocoa butter	IS 1164 : 1986 Reaff 2012	1.00-99.00 %
		Protein	IS: 6287: 1985 Reaff 2010, IS 7219: 1973 Reaff. 2005	0.50-30.00 %
		Lactose	IS : 1479 : 1961 (Part II) Reaff 2008	1.00-50.00 %
		Crude fibre	IS 1164 : 1986 Reaff 2012, IS 10226 : PART I; Reaf 2005 ISO 5498:1981, IS 11923 :1986 Reaff 2007	0.50-50.00 %
		Colors (Brilliant Blue FCF, Carmosine, Fast Green FCF, Erythrosine, Indigocarmine, Tartrazine, Sunset yellow FCF)	IFS/C/STP/FC/017	10-10000 mg/kg
		Particle size	IS 11923 :1986 ;Reaff 2012	1 – 100% passing through 150 mesh

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	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Arsenic	IFS/C/STP/AAS/002	0.10-10000 mg/kg
		Cadmium	IFS/C/STP/AAS/002 AOAC 999.10, 999.11	0.02-10000 mg/kg
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Copper	IFS/C/STP/AAS/002 AOAC 999.10, 999.11	0.50-100000 mg/kg
		Lead	IFS/C/STP/AAS/002 AOAC 999.10, 999.11, 972.25	0.10-10000 mg/kg
	<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Mercury	IFS/C/STP/AAS/002	0.10-5000 mg/kg
		Tin	IFS/C/STP/AAS/002	1.00-10000 mg/kg
		Zinc	IFS/C/STP/AAS/002	1.00-10000 mg/kg
		<b>Residual Pesticides</b>		
		Alpha BHC	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Beta BHC		0.020-10.0 mg/kg
	Chlorothalonil		0.020-10.0 mg/kg	
	Chlorpyrifos -ethyl		0.020-10.0 mg/kg	
	Delta BHC		0.020-10.0 mg/kg	
	Dicloran		0.020-10.0 mg/kg	
	Dieldrin		0.020-10.0 mg/kg	
	Endosulfan I		0.020-10.0 mg/kg	
	Endosulfan II		0.020-10.0 mg/kg	
	Endrin		0.020-10.0 mg/kg	
	Fenitrothion		0.020-10.0 mg/kg	

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	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Aldrin	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Heptachlor		0.020-10.0 mg/kg
		Heptachlor epoxide		0.020-10.0 mg/kg
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Hexachlorobenzene (HCB)		0.020-10.0 mg/kg
		Lindane		0.020-10.0 mg/kg
		Methoxychlor		0.020-10.0 mg/kg
	<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Methyl Chlorpyrifos		0.020-10.0 mg/kg
		o,p'-DDE		0.020-10.0 mg/kg
		o,p'-DDT		0.020-10.0 mg/kg
		Oxyfluorfen		0.020-10.0 mg/kg
		Pentachloronitro Benzene (PCNB)		0.020-10.0 mg/kg
		Pentachloroaniline		0.020-10.0 mg/kg
		Pentachloroanisole		0.020-10.0 mg/kg
		Pentachlorothioanisole		0.020-10.0 mg/kg
		Perthane		0.020-10.0 mg/kg
		p,p'-DDD		0.020-10.0 mg/kg
		p,p'-DDE		0.020-10.0 mg/kg
		p,p'-DDT		0.020-10.0 mg/kg
		Tecnazene		0.020-10.0 mg/kg
		Thiodan Sulfate		0.020-10.0 mg/kg
	Trichloroanisole		0.020-10.0 mg/kg	
	Pentachloroanisole		0.020-10.0 mg/kg	
	Simazine	IFS/C/STP/LC/012		0.020-10.0 mg/kg

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	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Methidathion	IFS/C/STP/LC/012	0.020-10.0 mg/kg
		Phorate	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Methyl Parathion		0.020-10.0 mg/kg
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Methyl Pirimiphos	IFS/C/STP/LC/012	0.020-10.0 mg/kg
		Malathion		0.020-10.0 mg/kg
	<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Fonofos	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Fenthion		0.020-10.0 mg/kg
		Ethion		0.020-10.0 mg/kg
		Ethyl Parathion		0.020-10.0 mg/kg
		DDVP (Dichlorvos)		0.020-10.0 mg/kg
		Diazinon	IFS/C/STP/LC/012	0.020-10.0 mg/kg
		Atrazine	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Carbofuran	IFS/C/STP/LC/012	0.020-10.0 mg/kg
		2,4-d		0.020-10.0 mg/kg
		Acephate		0.020-10.0 mg/kg
	Aldicarb		0.020-10.0 mg/kg	

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	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Azinphos methyl	IFS/C/STP/LC/012	0.020-10.0 mg/kg	
		Captafol		0.020-10.0 mg/kg	
		Carbaryl		0.020-10.0 mg/kg	
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Dimethoate		0.020-10.0 mg/kg	
		Fosetyl aluminium		0.020-10.0 mg/kg	
	<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Imidacloprid		0.020-10.0 mg/kg	
		Metribuzin		0.020-10.0 mg/kg	
		Monocrotophos		0.020-10.0 mg/kg	
		Paraquat dichloride		0.020-10.0 mg/kg	
		Phosalone		0.020-10.0 mg/kg	
		Phosphamidon		0.020-10.0 mg/kg	
		Propiconazole		0.020-10.0 mg/kg	
		Propoxur	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)		0.020-10.0 mg/kg
		Quinalphos	IFS/C/STP/LC/012		0.020-10.0 mg/kg
		Diuron			0.020-10.0 mg/kg
	Alachlor	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)		0.020-10.0 mg/kg	
	Cypermethrin (Alpha, Beta, Theta, Zeta)			0.020-10.0 mg/kg	

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	<b>Sugar Boiled Confectionery/Toffees: IS 1008: 2004 Reaff 2009</b>	Deltamethrin	IFS/C/STP/GC/005, AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Dicofol		0.020-10.0 mg/kg
		Dithiocarbamate (Total)	IFS/STP/GC/011	0.005-10.0 mg/kg
	<b>Cocoa Powder IS 1164: 1986 Reaff 2012</b>	Ethoprophos	IFS/C/STP/GC/005 AOAC: 2007.01 : 19th ed. (2012)	0.020-10.0 mg/kg
		Fenvalerate		0.020-10.0 mg/kg
	<b>Cocoa Butter IS 1263:1986 Reaff 2012</b>	Fipronil		0.020-10.0 mg/kg
		Formothion		0.020-10.0 mg/kg
		Metalaxyl		0.020-10.0 mg/kg
		o,p-DDD		0.020-10.0 mg/kg
		Oxamyl		0.020-10.0 mg/kg
		Permethrin		0.020-10.0 mg/kg
		Naturally Occurring Toxic Substances		
	Agaric acid	IFS/STP/GC/018	10.00-1000.00 mg/kg	
	Saffrole	IFS/STP/GC/012	1.00-100.00 mg/kg	
<b>3.</b>	<b>Sugar and sugar products</b>			
	<b>Plantation white sugar (IS 498 : 2003 Reaff 2008)</b>	Grade	IS 498 : 2003 Reaff 2008	Physical
		Grain size (L,M,S&SS)	IS 498 : 2003 Reaff 2008	1-95 % retained by mass(SS-to- L)

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	<b>Refined Sugar (IS 1151 : 2003 Reaff 2008)</b>	Crystal size (material to be retained on 500 $\mu$ sieve)	IS 5975 : 2003 Reaff 2008	1-95%
	<b>Icing sugar (IS 1152 : 2003 Reaff 2008)</b>	Loss on drying	IS 15279 : 2003 Reaff 2008, IS 5982 : 2003 Reaff 2008	0.01-10%
		Polarization	IS 15279 : 2003 Reaff 2008	90 – 100 °Z
	<b>Raw Sugar (IS 5975 : 2003 Reaff 2008)</b>	Total ash	IFS/C/STP/FC/006	0.01-10%
		Acid insoluble ash	IS: 6287: 1985 Reaff 2010	0.001-10%
	<b>Plantation white sugar (IS 5982: 2003 Reaff 2008)</b>	Sulphated ash	IS 15279 : 2003 Reaff 2008	0.01-10%
		Conductivity ash	IS 15279 : 2003 Reaff 2008	0.01-5%
	<b>Palm Sugar (IS14400: 1996 Reaff 2008)</b>	Sulphur dioxide	IFS/C/STP/FC/005 AOAC 990.28	2-10000 mg/kg
	<b>Jaggery (IS 13592 : 1994 : Reaff 2009)</b>	Colour in ICUMSA units	IS 15279 : 2003 Reaff 2008	1-5000 ICUMSA Unit
		Total sugar (as invert sugar/sucrose)	IS 15279 : 2003 Reaff 2008	1-95%
		Total of sucrose and starch	IS 15279 : 2003 Reaff 2008	1-95%
		Reducing sugar	IS 15279 : 2003 Reaff 2008, IS 5982 : 2003 Reaff 2008	0.001-40%
		Starch	IS 15279 : 2003 Reaff 2008	0.01-10%
		Water insoluble matter	IS 5982 : 2003 Reaff 2008, IS 15279 : 2003 Reaff 2008	10–10000 mg/kg
		Iron Particles/100gm	IFS/C/STP/FC/018	10–10000 mg/kg



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	<b>Sugar and sugar products</b>	Safety factor	IS 5975 : 2003 Reaff 2008	0.1-100
		Cadmium	IS : 2600 : 1988 Part II Reaff 2003, AOAC 999.11, 999.10, IFS/C/STP/AAS/003	0.02-100 mg/kg
		Chromium	IFS/C/STP/AAS/003	0.05-500 mg/kg
		Copper	AOAC 999.11, 999.10, IFS/C/STP/AAS/003	0.5-5000 mg/kg
		Lead	AOAC 999.11, 999.10, 972.25 IFS/C/STP/AAS/003	0.1-100 mg/kg
		Tin	IFS/C/STP/AAS/003	1.0-1000 mg/kg
		Zinc	IFS/C/STP/AAS/003	1.0-1000 mg/kg
<b>4.</b>	<b>General Food Products (Grapes, Fresh Fruits and Vegetables)</b>	Residual Pesticides		
		<b>Organochlorine pesticide</b>		
		Alpha BHC	IFS/C/STP/GC/007 ,	0.025-10.0 mg/kg
		Beta BHC	AOAC: 2007.01:19th ed. (2012)	0.025-10.0 mg/kg
		Chlorothalonil		0.025-10.0 mg/kg
		Chlorpyrifos (ethyl)		0.025-10.0 mg/kg
		Delta BHC		0.025-10.0 mg/kg
		Dicloran		0.025-10.0 mg/kg
		Dieldrin		0.025-10.0 mg/kg
	Endosulfan I		0.025-10.0 mg/kg	

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	<b>General Food Products (Grapes, Fresh Fruits and Vegetables)</b>	Endosulfan II		0.025-10.0 mg/kg
		Endrin	IFS/C/STP/GC/007 , AOAC: 2007.01:19th ed. (2012)	0.025-10.0 mg/kg
		Fenitrothion		0.025-10.0 mg/kg
		Aldrin		0.025-10.0 mg/kg
		Heptachlor		0.025-10.0 mg/kg
		Heptachlor epoxide		0.025-10.0 mg/kg
		Hexachlorobenzene (HCB)		0.025-10.0 mg/kg
		Lindane		0.025-10.0 mg/kg
		Methoxychlor		0.025-10.0 mg/kg
		Methyl Chlorpyrifos		0.025-10.0 mg/kg
		o,p'-DDE		0.025-10.0 mg/kg
		o,p'-DDT		0.025-10.0 mg/kg
		Oxyfluorfen		0.025-10.0 mg/kg
		p,p'-DDD		0.025-10.0 mg/kg
		p,p'-DDE		0.025-10.0 mg/kg
		p,p'-DDT		0.025-10.0 mg/kg
		Simazine		IFS/C/STP/LC/022
	<b>Organophosphorus Pesticides</b>			
	Methodathion	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/kg	
	Phorate		0.025-10.0 mg/kg	
	Methyl Parathion		0.025-10.0 mg/kg	
	Methyl Pirimiphos	IFS/C/STP/LC/022	0.025-10.0 mg/kg	
	Malathion		0.025-10.0 mg/kg	

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	<b>General Food Products (Grapes, Fresh Fruits and Vegetables)</b>	Fonofos	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/kg
		Fenthion		0.025-10.0 mg/kg
		Ethion		0.025-10.0 mg/kg
		Ethyl Parathion		0.025-10.0 mg/kg
		DDVP (Dichlorvos)		0.025-10.0 mg/kg
		Diazinon	IFS/C/STP/LC/022	0.025-10.0 mg/kg
		<b>Pyrethroids</b>		
		Cyfluthrin	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/kg
		Cypermethrin		0.025-10.0 mg/kg
		Deltamethrin		0.025-10.0 mg/kg
		Permethrin		0.025-10.0 mg/kg
		Fenvalerate		0.025-10.0 mg/kg
		Fluvalinate		0.025-10.0 mg/kg
		Cyhalothrin		0.025-10.0 mg/kg
	<b>Cholesterol</b>	IFS/C/STP/LC/010	15.0-1500 mg/100gm	

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	<b>General Food Products (Grapes, Fresh Fruits and Vegetables)</b>	<b>Fatty Acid Profile</b>		
		Saturated Fat	IS 548: 1976; Part II,	0.02-99.0 %
		Monounsaturated fatty Acid	AOCS Ce-1h-05	0.02-99.0 %
		Polyunsaturated Fat	IFS/C/STP/GC/006	0.02-99.0 %
		Trans Fat		0.02-99.0 %
		<b>Antioxidants (BHA, BHT, TBHQ)</b>		
		BHA	AOAC 983.15	2.0-2000mg/kg
		BHT	IFS/C/STP/LC/006	
		TBHQ		
		<b>Vitamins</b>		
		Vitamin A	IFS/C/STP/LC/003	50-5000 IU/100g
		Vitamin B1 (Thiamine)	IFS/C/STP/LC/002	0.5-300mg/100g
		Vitamin B2 (Riboflavin)		0.3-300mg/100g
		Vitamin B3 (Nicotinamide)		2.5-300mg/100g
		Vitamin B6 (Pyridoxine)		0.3-300mg/100g
	Folic Acid	IFS/M/STP/027	10.0-2000µg/100g	
	Vitamin B12	IFS/M/STP/028	0.5-30µg/100g	
	Vitamin E	IFS/C/STP/LC/003	0.5-2000 IU/100g	
	Vitamin D	IFS/C/STP/LC/004	2.0-300µg /100g	
	Vitamin K	IFS/C/STP/LC/004	10-100µg /100g	
	Vitamin C	AOAC 967.21, IS 5838: 1970; Reaff 2010, IFS/C/STP/LC/005	5.0-600 mg/100g	
	<b>Heavy Metals</b>			
	Lead	IFS/C/STP/AAS/004	0.1-10000 mg/Kg	
	Arsenic		0.1-1000 mg/Kg	
	Mercury		0.25-1000 mg/Kg	
	Cadmium		0.02-1000 mg/Kg	
	Nickel		0.1-1000 mg/Kg	
	Tin		1.0-1000 mg/Kg	

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	<b>General Food Products (Grapes, Fresh Fruits and Vegetables)</b>	<b>Melamine</b>	IFS/C/STP/LC/015	0.5-10 mg/Kg
		<b>Nutritional Facts Analysis</b>		
		Moisture	IS 4684: 1975; Reaff 2005	0.10 – 90%
		Ash	IFS/C/STP/FC/009	0.1 – 50%
		Fat	IFS/C/STP/FC/012	0.5 – 99%
		Protein	IFS/C/STP/FC/011	0.5 – 90%
			IS 7219: 1973; Reaff 2005	
		Carbohydrate	IFS/C/STP/FC/013	0.5 – 99%
		Energy	IFS/C/STP/FC/008	20 -1000 kCal
		Dietary Fiber	IFS/C/STP/FC/007, IS : 11062 :1984 Reaff 2005	0.50-80%
<b>5.</b>	<b>Sea Food (Prawns, Shrimp, Fish)</b>	<b>Residual Antibiotics and Veterinary drugs</b>		
		Chloramphenicol	IFS/C/STP/LC/039	0.3 - 50 µg/Kg
		<b>Nitrofurans</b>		
		Furazolidone (AOZ)	IFS/C/STP/LC/040	1.0 - 20.0 µg/Kg
		Furtadone(AMTZ)		1.0 - 20.0 µg/Kg
		Nitrofurantoin ( AHD)		1.0 - 20.0 µg/Kg
		Nitrofurazone ( SEM)		1.0 - 20.0 µg/Kg
		<b>Fatty acid profile</b>		
		Saturated Fat	IFS/C/STP/GC/006	0.02-99.0 %
		Monounsaturated fatty Acid		0.02-99.0 %
		Polyunsaturated Fat		0.02-99.0 %
		Trans Fat		0.02-99.0 %
		<b>Pesticide Residue</b>		
		Alpha HCH	IFS/C/STP/GC/010,	0.01-5 mg/kg
		Beta HCH	AOAC: 2007.01 : 19th ed. (2012)	0.01-5 mg/kg
		Gamma HCH		0.01-5 mg/kg
		Delta HCH		0.01-5 mg/kg
	O,P DDT		0.01-5 mg/kg	
	P,P DDT		0.01-5 mg/kg	

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	<b>Sea Food (Prawns, Shrimp, Fish)</b>	O,P DDE	IFS/C/STP/GC/010, AOAC: 2007.01 : 19th ed. (2012)	0.01-5 mg/kg
		P,P DDE		0.01-5 mg/kg
		O,P DDD		0.01-5 mg/kg
		P,P DDD		0.01-5 mg/kg
		Aldrin		0.01-5 mg/kg
		Dieldrin		0.01-5 mg/kg
		Endrin		0.01-5 mg/kg
		Cyfluthrin		0.01-5 mg/kg
		Cypermethrin		0.01-5 mg/kg
		(Alpha, Beta, Theta, Zeta)		
		Deltamethrin		0.01-5 mg/kg
		Permethrin		0.01-5 mg/kg
		Fenvalerate		0.01-5 mg/kg
		Fluvalinate		0.01-5 mg/kg
		Cyhalothrin		0.01-5 mg/kg
	<b>Polychlorinated biphenyl (PCB)</b>			
	PCB 28(2,4,4'-trichlorobiphenyl)	IFS/C/STP/GC/010, AOAC: 2007.01 : 19th ed. (2012)	0.01-5 mg/kg	
	PCB 31(2,4',5-trichlorobiphenyl)		0.01-5 mg/kg	
	PCB 52(2,2',5,5'-tetrachlorobiphenyl)		0.01-5 mg/kg	
	PCB 101(2,2',4,5,5'-pentachlorobiphenyl)		0.01-5 mg/kg	
	PCB 138(2,2',3,4,4',5'-hexachlorobiphenyl)		0.01-5 mg/kg	
	PCB 153(2,2',4,4',5,5'-hexachlorobiphenyl)		0.01-5 mg/kg	
	PCB 180(2,2',3,4,4',5,5'-heptachlorobiphenyl)		0.01-5 mg/kg	

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	<b>Sea Food (Prawns, Shrimp, Fish)</b>	<b>Polynuclear aromatic hydrocarbons</b>		
		Acenaphthene	IFS/C/STP/GC/010,	0.01-5 mg/kg
		Acenaphthylene	AOAC: 2007.01 : 19th ed. (2012)	0.01-5 mg/kg
		Anthracene		0.01-5 mg/kg
		Benzo(a)anthracene		0.01-5 mg/kg
		Benzo(b)fluoranthene		0.01-5 mg/kg
		Benzo(k) fluoranthene		0.01-5 mg/kg
		Benzo(g,h,i)perylene		0.01-5 mg/kg
		Benzo(a)pyrene		0.01-5 mg/kg
		Chrysenes		0.01-5 mg/kg
		Dibenzo(a,h)anthracene		0.01-5 mg/kg
		Fluoranthene		0.01-5 mg/kg
		Fluorene		0.01-5 mg/kg
		Indeno(1,2,3-c,d)pyrene		0.01-5 mg/kg
		Naphthalene		0.01-5 mg/kg
		Phenanthrene		0.01-5 mg/kg
		Pyrene		0.01-5 mg/kg
		<b>Heavy Metals</b>		
		Lead	IFS/STP/AAS/005	0.05-1000 mg/kg
		Cadmium		0.02-1000 mg/kg
		Sodium		20-1000mg/100gm
		<b>Mycotoxins</b>		
		Ochratoxins	IFS/C/STP/LC/035	1-50g/kg
		<b>Vitamins</b>		
		Vitamin C	IFS/C/STP/LC/031	1-30g/kg
		<b>Histamine</b>	IFS/C/STP/LC/036	2.0 -50 mg/Kg
		<b>Colours</b>		
		Malachite green	IFS/C/STP/LC/038	1.0 - 20 µg/Kg
		Leuco Malachite green		1.0 - 20 µg/Kg

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	<b>Sea Food (Prawns, Shrimp, Fish)</b>	<b>Other Requirements</b>		
		Caffeine	IFS/C/STP/LC/034	0.5-50 mg/kg
		Ethylene Diamine Tetra Acetic Acid (EDTA)	IFS/C/STP/LC/033	10-100 mg/kg
		Total Volatile basic nitrogen content (TVBN)	IFS/C/STP/FC/024	1.0-100 mg/100g
		Sulphur dioxide	AOAC 971.14 : 19th ed. (2012)	2-500 mg/100g
		Total dry matter	AOAC 952.08 : 19th ed. (2012)	2-50%
		acid Insoluble ash	AOAC 938.08: 19th ed. (2012)	0.01-10%
		Ash	AOAC 938.08 : 19th ed. (2012)	0.1-10%
		Salt	IS 2236-1968; Reaff.2011	0.10-50%
		Acidity	IS 2236-1968; Reaff.2011	0.01-10%
		Fat	AOAC 948.15: 19th ed. (2012)	0.5-50%
		PH	IFS/C/STP/FC/029	1-12
		Moisture	AOAC 952.08: 19th ed. (2012) IFS/ C/STP/FC/023	10-99%
		Total solids	AOAC 952.08: 19th ed. (2012) IFS/ C/STP/FC/023	1-99%
		Ethyl Alcohol	IFS/C/STP/GC/009	0.01-80%



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	<b>Sea Food (Prawns, Shrimp, Fish)</b>	<b>Polyphosphates</b> Pyrophosphate Tripolyphosphate Pyrophosphate Hexameta phosphate	ISO-5553-1980(E)	Present/Absent Present/Absent Present/Absent Present/Absent
<b>6.</b>	<b>Baby Food (IS 1656 - 2007 RA 2009)</b>	<b>General</b> Moisture  Total Solids  Titratable acidity  Milk Protein  Milk Fat  Total Ash  Acid Insoluble Ash  Total Carbohydrates  Energy  Dietary Fiber  Total added sugar  Insolubility Index	IS 11623-2008 RA 2009  IS 13334 (PT- 1) : 1998; Reaff.2010  IS 11766-1986; Reaff.2008  IS 7219: 1973 Reaff. 2005  IS 11721:2005 Reaff. 2010  IS 14433:2007 Reaff. 2010  IS 14433:2007 Reaff. 2010  IS 1656 - 2007 RA 2009  IFS/C/STP/FC/008  IS 11062:(P1)1984, IFS/C/STP/FC/007, AOAC 985.29  IFS/C/STP/FC/010  IS 12759:1989, RA2010	1 – 90%  20 to 99 %  0.01 to 2 %  1 to 50 %  0.50 to 50 %  0.1-10.0 %  0.01-15.0 %  0.50-99 %  20 -1000 kCal  0.5 -80%  1-50 %  0.1 -10ml

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	<b>Baby Food (IS 1656 - 2007 RA 2009)</b>	<b>Vitamins</b>		
		Vitamin A	IFS/C/STP/LC/003	15-2000 µg /100g
		Ascorbic acid	IFS/C/STP/LC/005	5.0-600 mg/100g
		Vitamin D	IFS/C/STP/LC/004	2.0-300µg /100g
		Vitamin K	IFS/C/STP/LC/004	10-100 µg /100g
		Thiamine	IFS/C/STP/LC/002	0.3-300mg/100g
		Niacinamide		2.0-300mg/100g
		Riboflavin		0.3-300mg/100g
		Vitamin B6		0.3-300mg/100g
		Vitamin E	IFS/C/STP/LC/003	0.5-500 IU/100g
		Vitamin B12	IFS/M/STP/028	0.5-30µg/100g
		Folic Acid	IFS/M/STP/027	10.0-2000µg/100g
		Biotin	IFS/C/STP/LC/069	10-200µg/100g
		<b>Mycotoxins</b>		
		Aflatoxin B1	IFS/C/STP/LC/053	1.0-50 ug/kg
	Aflatoxin B2		1.0-50 ug/kg	
	Aflatoxin G1		1.0-50 ug/kg	
	Aflatoxin G2		1.0-50 g/kg	
	<b>Metals</b>			
	Iron	IFS/C/STP/AAS/006, IS 14433:2007 Reaff. 2010	1.0-1000 mg/100g	
	Lead	IFS/C/STP/AAS/004, IS 12074:1987, RA 2010	0.1-1000 mg/kg	

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	<b>Baby Food (IS 1656 - 2007 RA 2009)</b>	Mercury	IFS/C/STP/AAS/004	0.25-1000 mg/Kg
		Nickel	IFS/C/STP/AAS/004	0.1-1000 mg/Kg
		Arsenic	IFS/C/STP/AAS/004, IS 11124:1984, RA 2010	0.1-1000 mg/kg
		Tin	IFS/C/STP/AAS/004, IS 5838:1970, RA2005	1.0-1000 mg/kg
		Cadmium	IFS/C/STP/AAS/004, IS 1699(15):1995, RA 2005	0.02-1000 mg/kg
		Calcium	IFS/C/STP/AAS/006, IS 5949:1990, RA2010	10-10000 mg/100g
		Phosphorous	AOAC 965.17, IS 12756:1989, RA2010	10-5000 mg/kg
		Iodine	IFS/STP/GC/013	0.05-1000 mg/kg
		Copper	IFS/C/STP/AAS/006, IS 1699:1995 RA 2005	0.50-1000 mg/kg
		Manganese	IFS/C/STP/AAS/006	0.1-1000 mg/kg
		Zinc	IFS/C/STP/AAS/006, IS 1699:1995, RA2005	5-1000 mg/kg
		Sodium	IFS/C/STP/AAS/006, IS 12760:1989, RA2010	10-10000 mg/100g
		Potassium	IFS/C/STP/AAS/006, IS 12760:1989, RA2010	10-10000 mg/100g

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	<b>Baby Food (IS 1656 - 2007 RA 2009)</b>	Selenium	IFS/C/STP/AAS/006, IS 12760:1989, RA2010	0.1-1000mg/kg
		Chloride	IS 253-1985 Reaff.2009, IS 11763:2005	100-10000 mg/kg
		Magnesium	IFS/C/STP/AAS/006, IS 5949:1990 RA 2003	5-10000 mg/100g
		<b>Cholesterol</b>	IFS/C/STP/LC/010	15.0-1500 mg/100gm
		<b>Fatty Acid Profile</b>		
		Saturated Fat	IS 548: 1976; Part II,	0.02-99.0 %
		Monounsaturated fatty Acid	AOCS Ce-1h-05	0.02-99.0 %
		Polyunsaturated Fat	IFS/C/STP/GC/006	0.02-99.0 %
		Trans Fat		0.02-99.0 %
		6. Antioxidants (BHA, BHT, TBHQ)		
	BHA	AOAC 983.15	2.0-2000mg/kg	
	BHT			
	TBHQ	IFS/C/STP/LC/006		
	7. Melamine	IFS/C/STP/LC/015	0.01-10 mg/Kg	
7.	<b>Spices and Condiments (Whole &amp; ground) (Black pepper, Cardamom, Chilly, Turmeric, Coriander, Cumin, Clove, cinnamon, fennel, fenugreek, ginger, mace, nutmeg, mustard, saffron, garlic, dried mango powder)</b>	Moisture	IS 1797:1985, RA2009	0.50 -50.0%
		Extraneous matter	IS 1797:1985, RA2009	0.1-20%
		ASTA Color value	AOAC 971.26	1-500
		Total ash	IS 1797:198, RA2009	0.1-10%
		Acid insoluble ash	IS 1797:1985, RA2009	0.5 – 10%
	Alcohol soluble extract	IS 1797:1985, RA2009	1-50%	

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	<b>Spices and Condiments</b>	Crude fiber	IS 1797:1985, RA2009	0.4 – 20%
		Non Volatile Ether Extract	IS 1797:1985, RA2009	0.5 – 20%
		Volatile oil contents	IS 1797:1985, RA2009	0.5 – 50 ml/100gm
		Cold water soluble extract	IS: 1797:1985 RA 2009	0.5-50%
		Salt	IS 1797:1985, RA2009	0-50%
		Capsaicin Content	IS 13663:1993, RA2007, AOAC 995.03	0.1-20%
		Scoville Index	ASTA Method, AOAC 995.03	1000 – 1,60,00,000 SHU
		Curcumin	IS 10925:1984, RA2012	1-15%
		Agaric acid	IFS/STP/GC/018	10.0-1000 mg/kg
		Hypericine	IFS/STP/LC/030	0.2-50mg/kg
		Saffrole	IFS/STP/GC/012	1.0-1000 mg/kg
		Added Starch	IS: 4706 (PT 1) :1978 RA 2010	1-99%
		<b>Metals</b>		
		Sodium	IFS/C/STP/AAS/006	10-10000 mg/100g
		Potassium		10-10000 mg/100g
		Calcium	IFS/C/STP/AAS/004	10-10000 mg/100g
		<b>Mycotoxins</b>		
		Aflatoxin B1	IFS/C/STP/LC/047	1.0-50 ug/kg
		Aflatoxin B2		1.0-50 ug/kg
		Aflatoxin G1		1.0-50 ug/kg
		Aflatoxin G2		1.0-50 ug/kg

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	<b>Spices and Condiments</b>	Ochratoxin A	IFS/C/STP/LC/048	1.0-50 ug/kg
		Chromate test	IS: 3576:1994 RA 2010	Present/ Absent
		Sulphur dioxide	AOAC 990.28	2-500 mg/Kg
		Hydrocyanic Acid	IS: 548 (Part II)-1976 RA 2010	Present/Absent
		<b>Pesticide Residue</b>		
		2,4-D	IFS/C/STP/LC/057	0.01 - 10 mg/Kg
		Azinophos Methyl		0.01-10 mg/kg
		2,4-DDD	IFS/C/STP/GC/024,	0.01-10 mg/kg
		2,4-DDE	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		2,4-DDT		0.01-10 mg/kg
		4,4-DDD		0.01-10 mg/kg
		4,4-DDE		0.01-10 mg/kg
		4,4-DDT		0.01-10 mg/kg
		Alachlor		0.01-10 mg/kg
		Aldrin		0.01-10 mg/kg
		Alpha HCH		0.01-10 mg/kg
		Benomyl		0.01-10 mg/kg
		Beta HCH		0.01-10 mg/kg
		Bromopropylate		0.01-10 mg/kg
		Carbaryl	IFS/C/STP/LC/057	0.01-10 mg/kg
		Carbofuran		0.01-10 mg/kg
		Chlorfenvinfos	IFS/C/STP/GC/024,	0.01-10 mg/kg
		Chlorpyrifos	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Chlorpyrifos Methyl		0.01-10 mg/kg
		Chlordane(cis, trans)		0.01-10 mg/kg

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	<b>Spices and Condiments</b>	Cypermethrin (Alpha, Beta, Theta, Zeta) Delta HCH Deltamethrin	IFS/C/STP/GC/024, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg
		Diazinon	IFS/C/STP/LC/057	0.01-10 mg/kg
		Dichlorovos Dieldrin	IFS/C/STP/GC/024, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg 0.01-10 mg/kg
		Dithiocarbamate (Total)	IFS/STP/GC/011	0.005-10.00 mg/kg
		Endosulphan Endrin Ethion Fenitrothion Fenthion Fenvalerate Fonofos Heptachlor	IFS/C/STP/GC/024, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg
		Heptachlor Epoxide Hexachlorobenzene	IFS/C/STP/GC/024, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg 0.01-10 mg/kg
		Inorganic Bromide	IFS/C/STP/GC/016	0.5-500mg/kg
		Lindane	IFS/C/STP/GC/024, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Malathion Methidathion Monocrotophos Oxydemeton methyl	IFS/C/STP/LC/057	0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg 0.01-10 mg/kg

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	<b>Spices and Condiments</b>	Parathion	IFS/C/STP/GC/024, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg		
		Parathion Methyl		0.01-10 mg/kg		
		Permethrin		0.01-10 mg/kg		
		Phorate		0.01-10 mg/kg		
		Pyrethrin		0.01-10 mg/kg		
		Phenthoate		IFS/C/STP/LC/057	0.01-10 mg/kg	
		Phosalone	0.01-10 mg/kg			
		Phosphamidon	0.01-10 mg/kg			
		Primiphos Methyl	0.01-10 mg/kg			
		Thiometon	0.01-10 mg/kg			
		Trichlorfon	0.01-10 mg/kg			
<b>8.</b>		<b>Tea (Organic tea, green tea, black tea, instant tea, tea bags)</b>	<b>General</b>			
			Dry Matter		IS :13852:1994 RA 2009	1-99%
			Total ash	IS :13854:1994 RA 1999	0.1-20 %	
	Acid insoluble ash		IS :13857:1993 RA 2009	0.02-10%		
	Water soluble ash		IS :13855:1993 RA 2009	0.1-99 %		
	Alkalinity of water soluble ash		IS: 13856: 1993 RA 2009	0.1-20%		
	Water extract		IS :13862:1999 RA 2009	1-99%		
	Crude Fibre		IS :10226 (Part 1):1982	1.0-50%		
	Iron		IFS/C/STP/AAS/006	1-1000 mg/100g		
	Copper		IFS/C/STP/AAS/006	0.50-1000mg/kg		
	Added Coloring matter	IFS/C/STP/FC/017	Qualitative			
	Foreign matter	IFS/C/STP/FC/020	0.1-20 %			



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	<b>Tea (Organic tea, green tea, black tea, instant tea, tea bags)</b>	Caffeine content	IFS/C/STP/LC/049	1-200 mg/100gm
		Tannin content	AOAC 952.03 18th ed. (2012)	0.05-1.0 %
		<b>Pesticide Residue</b>		
		Alpha HCH	IFS/C/STP/GC/022,	0.02-10 mg/kg
		Lindane	AOAC: 2007.01 : 19 <sup>th</sup> ed. (2005)	0.02-10 mg/kg
		BetaHCH		0.02-10 mg/kg
		Heptachlor		0.02-10 mg/kg
		Delta HCH		0.02-10 mg/kg
		Aldrin		0.02-10 mg/kg
		Chlordane(cis, trans)		0.02-10 mg/kg
		2,4-DDE		0.02-10 mg/kg
		Endosulphan-I		0.02-10 mg/kg
		4,4-DDE		0.02-10 mg/kg
		Dieldrin		0.02-10 mg/kg
		2,4-DDT		0.02-10 mg/kg
		Ethion		0.02-10 mg/kg
		4,4,DDD		0.02-10 mg/kg
		Endosulphan-II		0.02-10 mg/kg
		4,4-DDT		0.02-10 mg/kg
		2,4-DDD		0.02-10 mg/kg
		Dicofol		0.02-10 mg/kg
		Endosulphan Sulphate		0.02-10 mg/kg
		Endrin		0.02-10 mg/kg
		Heptachlor Epoxide		0.02-10 mg/kg
		methoxychlor		0.02-10 mg/kg
		Hexachlorobenzene		0.02-10 mg/kg
		Dichloran		0.02-10 mg/kg
		Tetradifon		0.02-10 mg/kg
		Bromopropylate		0.02-10 mg/kg
		Propachlor		0.02-10 mg/kg

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<b>9.</b>	<b>Fats and Oils (Mustard oil, soybean oil, olive oil, coconut oil, ghee, cotton seed oil, groundnut oil)</b>	<b>General</b>		
		Moisture	IS: 548: 1964, RA 2010 (P-I)	0.02 – 5%
		Specific gravity	IS: 548: 1964, RA 2010 (P-I)	0.860 – 0.968
		Insoluble matter	IS: 548: 1964, RA 2010 (P-I)	0.05-50%
		Acid value	IS: 548: 1964, RA 2010 (P-I)	0.05 – 50
		Iodine value	IS: 548: 1964, RA 2010 (P-I)	1 – 500
		Saponification value	IS: 548: 1964, RA 2010 (P-I)	1 – 500
		Unsaponifiable matter	IS: 548: 1964, RA 2010 (P-I)	0.3 – 5 %
		Test for rancidity	IS: 548: 1964, RA 2010 (P-I)	Qualitative
		Peroxide value	IS: 548: 1964, RA 2010 (P-I)	0.5 – 100 mEq/1000gm
		Hydroxyl Value	IS: 548: 1964, RA 2010 (P-I)	1-500
		Reichert-Meissel value	IS: 548: 1964, RA 2010 (P-I)	0.5 – 50
		Polenske value	IS: 548: 1964, RA 2010 (P-I)	0.1-13
		Baudouin test (sesame seed oil test)	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Halphen test (cotton seed oil test)	IS: 548: 1976, RA 2010 (P-II)	Qualitative
	Hexa bromide test (Linseed oil test)	IS: 548: 1976, RA 2010 (P-II)	Qualitative	
	Belier's turbidity test	DGHS Manual 2	1-80 °C	

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	<b>Fats and Oils (Mustard oil, soybean oil, olive oil, coconut oil, ghee, cotton seed oil, groundnut oil)</b>	Refractive index	IS: 548: 1964, RA 2010 (P-I)	1.330-1.5000
		Argemone oil	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Mineral oil	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Castor oil	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Hydro cyanic acid	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Test for animal fat	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Free fatty acid	IS: 548: 1964, RA 2010 (P-I)	0.1-10%
		Melting point	IS: 548: 1964, RA 2010 (P-I)	10-100°C
		Phosphorus	AOAC 965.17	0.01-30%
		Color	IS: 548: 1964, RA 2010 (P-I)	1-100
		Oxidative stability	IFS/C/STP/FC/031	0-24 hrs
		Agaric acid	IFS/STP/GC/018	10.0-1000 mg/kg
		Saffrole	IFS/STP/GC/012	1.0-1000 mg/kg
		<b>Vitamins</b>		
	Vitamin A	IFS/C/STP/LC/050	50-5000 IU/100g	
	Vitamin E	IFS/C/STP/LC/050	1.0-500 IU/100g	
	<b>Residual Pesticides</b>			
	Alpha BHC	IFS/C/STP/GC/007 ,	0.025-1.0 mg/Kg	
	Beta BHC	AOAC: 2007.01:19th ed. (2012)	0.025-1.0 mg/Kg	
	Chlorothalonil		0.025-1.0 mg/Kg	

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	<b>Fats and Oils (Mustard oil, soybean oil, olive oil, coconut oil, ghee, cotton seed oil, groundnut oil)</b>	Chlorpyrifos (ethyl)	IFS/C/STP/GC/007 , AOAC: 2007.01:19th ed. (2012)	0.025-1.0 mg/Kg
		Delta BHC		0.025-1.0 mg/Kg
		Dicloran		0.025-1.0 mg/Kg
		Dieldrin		0.025-1.0 mg/Kg
		Endosulfan I		0.025-1.0 mg/Kg
		Endosulfan II		0.025-1.0 mg/Kg
		Endrin		0.025-1.0 mg/Kg
		Fenitrothion		0.025-1.0 mg/Kg
		Aldrin		0.025-1.0 mg/Kg
		Heptachlor		0.025-1.0 mg/Kg
		Heptachlor epoxide		0.025-1.0 mg/Kg
		Hexachlorobenzene (HCB)		0.025-1.0 mg/Kg
		Lindane		0.025-1.0 mg/Kg
		Methoxychlor		0.025-1.0 mg/Kg
		Methyl Chlorpyrifos		0.025-1.0 mg/Kg
		o,p'-DDE		0.025-1.0 mg/Kg
		o,p'-DDT		0.025-1.0 mg/Kg
		Oxyfluorfen		0.025-1.0 mg/Kg
		p,p'-DDD		0.025-1.0 mg/Kg
		p,p'-DDE		0.025-1.0 mg/Kg
	p,p'-DDT	0.025-1.0 mg/Kg		
	Simazine	IFS/C/STP/LC/022	0.025-1.0 mg/Kg	
	Organophosphorus Pesticides			
	Methodathion	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg	
	Phorate		0.025-1.0 mg/Kg	
	Methyl Parathion		0.025-1.0 mg/Kg	
	Methyl Pirimiphos	IFS/C/STP/LC/022	0.025-1.0 mg/Kg	
	Malathion		0.025-1.0 mg/Kg	
	Fonofos	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg	
	Fenthion		0.025-1.0 mg/Kg	
	Ethion		0.025-1.0 mg/Kg	

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	<b>Fats and Oils (Mustard oil, soybean oil, olive oil, coconut oil, ghee, cotton seed oil, groundnut oil)</b>	Ethyl Parathion	IFS/C/STP/GC/007,	0.025-1.0 mg/Kg
		DDVP (Dichlorvos)	AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg
		Diazinon	IFS/C/STP/LC/022	0.025-1.0 mg/Kg
		Cyfluthrin	IFS/C/STP/GC/007,	0.025-1.0 mg/Kg
		Cypermethrin	AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg
		Deltamethrin		0.025-1.0 mg/Kg
		Permethrin		0.025-1.0 mg/Kg
		Fenvalerate		0.025-1.0 mg/Kg
		Fluvalinate		0.025-1.0 mg/Kg
		Cyhalothrin		0.025-1.0 mg/Kg
	<b>Cholesterol</b>		IFS/C/STP/LC/010	15.0-1500 mg/100gm
	Fatty Acid Profile			
	Saturated Fat		IS 548: 1976; Part II,	0.02-99.0 %
	Monounsaturated fatty Acid		AOCS Ce-1h-05	0.02-99.0 %
	Polyunsaturated Fat		IFS/C/STP/GC/006	0.02-99.0 %
	Trans Fat			0.02-99.0 %
	<b>Antioxidants (BHA, BHT, TBHQ)</b>			
	BHA		AOAC 983.15	2.0-2000mg/kg
	BHT		IFS/C/STP/LC/006	
	TBHQ			
	<b>Heavy Metals</b>			
	Lead		IFS/C/STP/AAS/004	0.1-1000 mg/Kg
	Arsenic			0.1-1000 mg/Kg
	Mercury			0.25-1000 mg/Kg
	Cadmium			0.02-1000 mg/Kg
	Nickel			0.1-1000 mg/Kg
	Tin			1.0-1000 mg/Kg

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	<b>Fats and Oils (Mustard oil, soybean oil, olive oil, coconut oil, ghee, cotton seed oil, groundnut oil)</b>	<b>Nutritional Facts Analysis</b>		
		Moisture	IS 4684: 1975; RA 2005	1 – 90%
		Ash	IFS/C/STP/FC/009	0.1 – 50%
		Fat	IFS/C/STP/FC/012	0.5 – 99%
		Energy	IFS/C/STP/FC/008	20 -1000 kCal
<b>10.</b>	<b>Oilseeds (Sunflower seed, Groundnut seed, Mustard seed, Castor seed, Sesame seed, Linseed, Cotton seed, Soyabean seed)</b>	<b>General</b>		
		Moisture	IS: 548: 1964, RA 2010 (P-I)	0.02 – 5%
		Acid value	IS: 548: 1964, RA 2010 (P-I)	0.05 – 50
		Iodine value	IS: 548: 1964, RA 2010 (P-I)	1 – 500
		Saponification value	IS: 548: 1964, RA 2010 (P-I)	1 – 500
		Unsaponifiable matter	IS: 548: 1964, RA 2010 (P-I)	0.3 – 5 %
		Test for rancidity	IS: 548: 1964, RA 2010 (P-I)	Qualitative
		Peroxide value	IS: 548: 1964, RA 2010 (P-I)	0.5 – 100 mEq/1000gm
		Hydroxyl Value	IS: 548: 1964, RA 2010 (P-I)	1-500
	Reichert-Meissel value	IS: 548: 1964, RA 2010 (P-I)	0.5 – 50	
	Polenske value	IS: 548: 1964, RA 2010 (P-I)	0.1-13	

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	<b>Oilseeds (Sunflower seed, Groundnut seed, Mustard seed, Castor seed, Sesame seed, Linseed, Cotton seed, Soyabean seed)</b>	Baudouin test (sesame seed oil test)	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Halphen test (cotton seed oil test)	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Hexa bromide test (Linseed oil test)	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Belier's turbidity test	DGHS Manual 2	1-80 °C
		Argemone oil/seed	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Hydro cyanic acid	IS: 548: 1976, RA 2010 (P-II)	Qualitative
		Free fatty acid	IS: 548: 1964, RA 2010 (P-I)	0.1-10%
		Phosphorus	AOAC 965.17	0.01-30%
		Agaric acid	IFS/STP/GC/018	10.0-1000 mg/kg
		Saffrole	IFS/STP/GC/012	1.0-1000 mg/kg
	<b>Vitamins</b>			
	Vitamin A		IFS/C/STP/LC/050	50-5000 IU/100g
	Vitamin E		IFS/C/STP/LC/050	1.0-500 IU/100g
	<b>Residual Pesticides</b>			
	Alpha BHC		IFS/C/STP/GC/007 ,	0.025-1.0 mg/Kg
	Beta BHC		AOAC: 2007.01:19th ed. (2012)	0.025-1.0 mg/Kg
	Chlorothalonil			0.025-1.0 mg/Kg
	Chlorpyrifos (ethyl)			0.025-1.0 mg/Kg
	Delta BHC			0.025-1.0 mg/Kg
	Dicloran			0.025-1.0 mg/Kg

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	<b>Oilseeds (Sunflower seed, Groundnut seed, Mustard seed, Castor seed, Sesame seed, Linseed, Cotton seed, Soyabean seed)</b>	Dieldrin	IFS/C/STP/GC/007 , AOAC: 2007.01:19th ed. (2012)	0.025-1.0 mg/Kg
		Endosulfan I		0.025-1.0 mg/Kg
		Endosulfan II		0.025-1.0 mg/Kg
		Endrin		0.025-1.0 mg/Kg
		Fenitrothion		0.025-1.0 mg/Kg
		Aldrin		0.025-1.0 mg/Kg
		Heptachlor		0.025-1.0 mg/Kg
		Heptachlor epoxide		0.025-1.0 mg/Kg
		Hexachlorobenzene (HCB)		0.025-1.0 mg/Kg
		Lindane		0.025-1.0 mg/Kg
		Methoxychlor		0.025-1.0 mg/Kg
		Methyl Chlorpyrifos		0.025-1.0 mg/Kg
		o,p'-DDE		0.025-1.0 mg/Kg
		o,p'-DDT		0.025-1.0 mg/Kg
		Oxyfluorfen		0.025-1.0 mg/Kg
		p,p'-DDD		0.025-1.0 mg/Kg
		p,p'-DDE		0.025-1.0 mg/Kg
	p,p'-DDT	0.025-1.0 mg/Kg		
	Simazine	IFS/C/STP/LC/022	0.025-1.0 mg/Kg	
	<b>Organophosphorus Pesticides</b>			
	Methidathion	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg	
	Phorate		0.025-1.0 mg/Kg	
	Methyl Parathion		0.025-1.0 mg/Kg	
	Methyl Pirimiphos	IFS/C/STP/LC/022	0.025-1.0 mg/Kg	
	Malathion		0.025-1.0 mg/Kg	
	Fonofos	IFS/C/STP/GC/007, AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg	
	Fenthion		0.025-1.0 mg/Kg	
	Ethion		0.025-1.0 mg/Kg	
	Ethyl Parathion		0.025-1.0 mg/Kg	
	DDVP (Dichlorvos)		0.025-1.0 mg/Kg	



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	<b>Oilseeds (Sunflower seed, Groundnut seed, Mustard seed, Castor seed, Sesame seed, Linseed, Cotton seed, Soyabean seed)</b>	Diazinon	IFS/C/STP/LC/022	0.025-1.0 mg/Kg
		Cyfluthrin	IFS/C/STP/GC/007,	0.025-1.0 mg/Kg
		Cypermethrin	AOAC: 2007.01 : 19th ed. (2012)	0.025-1.0 mg/Kg
		Deltamethrin		0.025-1.0 mg/Kg
		Permethrin		0.025-1.0 mg/Kg
		Fenvalerate		0.025-1.0 mg/Kg
		Fluvalinate		0.025-1.0 mg/Kg
		Cyhalothrin		0.025-1.0 mg/Kg
		<b>Cholesterol</b>	IFS/C/STP/LC/010	15.0-1500 mg/100gm
		<b>Fatty Acid Profile</b>		
		Saturated Fat	IS 548: 1976; Part II,	0.02-99.0%
		Monounsaturated fatty Acid	AOCS Ce-1h-05	0.02-99.0%
		Polyunsaturated Fat	IFS/C/STP/GC/006	0.02-99.0%
	Trans Fat		0.02-99.0%	
	<b>Antioxidants (BHA, BHT, TBHQ)</b>			
	BHA	AOAC 983.15	2.0-2000mg/kg	
	BHT	IFS/C/STP/LC/006		
	TBHQ			
	<b>Heavy Metals</b>			
	Lead	IFS/C/STP/AAS/004	0.1-1000 mg/Kg	
	Arsenic		0.1-1000 mg/Kg	
	Mercury		0.25-1000 mg/Kg	
	Cadmium		0.02-1000 mg/Kg	
	Nickel		0.1-1000 mg/Kg	
	Tin		1.0-1000 mg/Kg	
	<b>Nutritional Facts Analysis</b>			
	Moisture	IS 4684: 1975; RA 2005	1 – 90%	
	Ash	IFS/C/STP/FC/009	0.1 – 50%	
	Fat	IFS/C/STP/FC/012	0.5 – 99%	

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	<b>Oilseeds (Sunflower seed, Groundnut seed, Mustard seed, Castor seed, Sesame seed, Linseed, Cotton seed, Soyabean seed)</b>	Protein	IFS/C/STP/FC/011 IS 7219: 1973; RA 2005	0.5 – 90%
		Carbohydrate	IFS/C/STP/FC/013	0.5 – 99%
		Energy	IFS/C/STP/FC/008	20 -1000 kCal
		Dietary Fiber	IFS/C/STP/FC/007, IS : 11062 :1984 Reaff 2005	0.5-50%
<b>10.</b>	<b>Cereals and Pulses whole (Rice, wheat, maize, chick pea, Rajma, Bengal gram, Soya bean, Dals)</b>	<b>General</b>		
		Moisture	IS: 4333 (Part II) 2002; RA 2012,	1.0 - 30 %
		Acid insoluble ash	IS: 1155: 1968, RA 2010	0.02-5%
		Foreign matter	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%
		Other Food Grain	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%
		Damaged, Discolored and insect damaged grains	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%
		Total unsound grains (Slightly damaged and touched and shriveled and immature grain)	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%
		Broken & unhusked grains	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%
	Weewilled grains	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%	
	Rodent hair and excreta	IS: 4333 (Part I):1996; RA 2012, IFS/C/STP/FC/020	0.05-20%	

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	<b>Cereals and Pulses whole (Rice, wheat, maize, chick pea, Rajma, Bengal gram, Soya bean, Dals)</b>	Mass of 1000 grains	IS: 4333 (Part IV):2002; RA 2012	1-100 g
		Uric acid	IS:4333 (P-V): 2002 RA 2012, IFS/C/STC/LC/055	10-200 mg/kg
		Gluten	IS: 1009: 1979, Reaff. 2010	1-30 g/100g
		Protein	IS 7219: 1973 Reaff. 2005	0.5-80 g/100g
		Total ash	IS:1009:1979	0.10-10 g/100g
		Fat	IFS/C/STP/FC/012	0.5 – 99%
		Carbohydrate	IFS/C/STP/FC/013	0.5 – 100 g/100g
		Energy	IFS/C/STP/FC/008	20 -1000 kCal
		Crude Fiber	IS: 1155: 1968, RA 2010	0.1-40
		Dietary Fiber	IFS/C/STP/FC/007 IS : 11062 :1984 Reaff 2005	0.1-80
		Kesari Dal	DGHS Manual	NA
		Inorganic Bromide	IFS/C/STP/GC/016	0.5-500mg/kg
		<b>Cholesterol</b>	IFS/C/STP/LC/010	15.0-1500 mg/100gm
	<b>Mycotoxins</b>			
	Aflatoxin B1	IFS/C/STP/LC/007	1.0-50 ug/kg	
	Aflatoxin B2		1.0-50 ug/kg	
	Aflatoxin G1		1.0-50 ug/kg	
	Aflatoxin G2		1.0-50 ug/kg	

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	<b>Cereals and Pulses whole (Rice, wheat, maize, chick pea, Rajma, Bengal gram, Soya bean, Dals)</b>	Ochratoxin A	IFS/C/STP/LC/011	1.0-50 ug/kg
		<b>Heavy Metals</b>		
		Lead	IFS/C/STP/AAS/004	0.1-1000mg/kg
		Cadmium		0.02-1000mg/kg
		Copper		0.50-1000mg/kg
		Arsenic		0.10-1000mg/kg
		Mercury		0.10-1000mg/kg
		<b>Pesticide Residue</b>		
		Anilophos	IFS/C/STP/GC/025,	0.025-5 mg/kg
		Bifenthrin	AOAC: 2007.01 : 19th ed. (2012)	0.025-5 mg/kg
		Butachlor		0.025-5 mg/kg
		Edifenphos		0.025-5 mg/kg
		Flufenacet		0.025-5 mg/kg
		Isoprothiolane		0.025-5 mg/kg
		kersoxim methyl		0.025-5 mg/kg
		Kitazin		0.025-5 mg/kg
		Oxadiargyl		0.025-5 mg/kg
		Oxadiazon		0.025-5 mg/kg
		Oxyfluorfen		0.025-5 mg/kg
		Pretilachlor		0.025-5 mg/kg
		Pyrazosulfuron ethyl		0.025-5 mg/kg
	Benomyl		0.025-5 mg/kg	
	Dithiocarbamate (Total)	IFS/STP/GC/011	0.005-10.00 mg/kg	
	Buprofezin	IFS/C/STP/LC/022	0.025-5 mg/kg	
	Benfuracarb		0.025-5 mg/kg	
	Carbaryl		0.025-5 mg/kg	
	Carbendazim		0.025-5 mg/kg	
	Carbosulfan		0.025-5 mg/kg	
	Imidacloprid		0.025-5 mg/kg	
	Iprodion		0.025-5 mg/kg	

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	<b>Cereals and Pulses whole (Rice, wheat, maize, chick pea, Rajma, Bengal gram, Soya bean, Dals)</b>	Methyl Chloro phenoxy acetic acid (MCPA)	IFS/C/STP/LC/022	0.025-5 mg/kg
		Pendimethalin		0.025-5 mg/kg
		Quinalphos		0.025-5 mg/kg
		Thimethoxam		0.025-5 mg/kg
		Thiochlorprid		0.025-5 mg/kg
		Triazophos		0.025-5 mg/kg
		Tricyclazol		0.025-5 mg/kg
		Thiophnate – Methyl		0.025-5 mg/kg
		Alpha BHC	IFS/C/STP/GC/025 ,	0.025-5 mg/kg
		Beta BHC	AOAC: 2007.01:19th ed. (2012)	0.025-5 mg/kg
		Chlorothalonil		0.025-5 mg/kg
		Chlorpyrifos (ethyl)		0.025-5 mg/kg
		Delta BHC		0.025-5 mg/kg
		Dicloran		0.025-5 mg/kg
		Dieldrin		0.025-5 mg/kg
		Endosulfan I		0.025-5 mg/kg
		Endosulfan II		0.025-5 mg/kg
		Endrin		0.025-5 mg/kg
		Fenitrothion		0.025-5 mg/kg
		Aldrin		0.025-5 mg/kg
		Heptachlor		0.025-5 mg/kg
		Heptachlor epoxide		0.025-5 mg/kg
	Hexachlorobenzene (HCB)	IFS/C/STP/GC/025,	0.025-5 mg/kg	
	Lindane	AOAC: 2007.01 : 19th ed. (2012)	0.025-5 mg/kg	
	Methoxychlor		0.025-5 mg/kg	
	Methyl Chlorpyrifos		0.025-5 mg/kg	
	o,p'-DDE		0.025-5 mg/kg	
	o,p'-DDT		0.025-5 mg/kg	
	Oxyfluorfen		0.025-5 mg/kg	
	p,p'-DDD		0.025-5 mg/kg	
	p,p'-DDE		0.025-5 mg/kg	
	p,p'-DDT		0.025-5 mg/kg	

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	<b>Cereals and Pulses whole (Rice, wheat, maize, chick pea, Rajma, Bengal gram, Soya bean, Dals)</b>	Simazine	IFS/C/STP/LC/022	0.025-5 mg/kg
		Methidathion	IFS/C/STP/GC/025,	0.025-5 mg/kg
		Phorate	AOAC: 2007.01 : 19th ed. (2012)	0.025-5 mg/kg
		Methyl Parathion		0.025-5 mg/kg
		Methyl Pirimiphos	IFS/C/STP/LC/022	0.025-5 mg/kg
		Malathion	IFS/C/STP/LC/022	0.025-5 mg/kg
		Fonofos	IFS/C/STP/GC/025,	0.025-5 mg/kg
		Fenthion	AOAC: 2007.01 : 19th ed. (2012)	0.025-5 mg/kg
		Ethion		0.025-5 mg/kg
		Ethyl Parathion		0.025-5 mg/kg
		DDVP (Dichlorvos)		0.025-5 mg/kg
		Diazinon	IFS/C/STP/LC/022	0.025-5 mg/kg
		Cyfluthrin	IFS/C/STP/GC/025,	0.025-5 mg/kg
		Cypermethrin	AOAC: 2007.01 : 19th ed. (2012)	0.025-5 mg/kg
	Deltamethrin		0.025-5 mg/kg	
	Permethrin		0.025-5 mg/kg	
	Fenvalerate		0.025-5 mg/kg	
	Fluvalinate		0.025-5 mg/kg	
	Cyhalothrin		0.025-5 mg/kg	
	<b>Cereal products (Wheat flour, Maida, Besan, corn flakes)</b>	<b>General</b>		
		Moisture	IS 1155:1968; RA 2010,	1 to 20.0%
		Total ash	IS 1009:1979	0.5 to 5.0%
		Acid insoluble ash		0.02 to 1.0%
		Gluten		7.0 to 12.0%
		Alcoholic acidity		0.02 to 1.0%
		Crude fibre		0.5 to 5.0%
	Granularity		Qualitative	

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	<b>Cereal products (Wheat flour, Maida, Besan, corn flakes)</b>	Protein	IS: 1155: 1968, Reaff. 2010	0.5-80 g/100g
		Dietary Fiber	IFS/C/STP/FC/007	0.1-40
		<b>Mycotoxins</b>		
		Aflatoxin B1	IFS/C/STP/LC/007	1.0-50 ug/kg
		Aflatoxin B2		1.0-50 ug/kg
		Aflatoxin G1		1.0-50 ug/kg
		Aflatoxin G2		1.0-50 ug/kg
		Ochratoxin A	IFS/C/STP/LC/011	1.0-50 ug/kg
<b>12.</b>	<b>Milk and Milk products</b>	<b>General</b>		
		Fat	IS: 1479: 1961 (P-II), Reaff 2009	0.5 – 99 %
		SNF	IS:12299:1998; Reaff 2008	1-99 %
		Lactose	IS:1479:1961(P-II), Reaff 2009	0.5-50 %
		Salt as sodium Chloride	IS 253-1985 Reaff.2009,	0.5-10%
		Protein	IS:1479:1961(P-II), Reaff 2009	0.5 - 90 %
		Ash	IS:1479:1961(P-II), Reaff 2009	0.1 - 99%
		Acid insoluble ash	IS 14433:2007 Reaff. 2010	0.02 - 90%
		Titrateable Acidity as lactic acid	IS: 1165: 2002,	0.01 - 10%
		Sucrose	IS:1479:1961(P-II), Reaff 2009	1-90 %
		pH	IS:1479:1961(P-II), Reaff 2009	1-12
		Total solids	IS:1479:1961(P-II), Reaff 2009	1-99 %
		Energy	IFS/C/STP/FC/008	20-1000 kCal/100gm

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	<b>Milk and Milk products</b>	Total carbohydrate	IFS/C/STP/FC/013	1-99%
		Density	IS:4941:1994	0-5
		Adulteration	IFS/C/STP/FC/042	NA
		Melamine	IFS/C/STP/LC/015	0.5-10 mg/Kg
		Total sugar	IFS/C/STP/FC/010	1-50%
		Iodine, mg/kg	IFS/STP/GC/013	0.05-1000 mg/kg
		Calcium	IFS/C/STP/AAS/006	10-10000 mg/100g
		Cholesterol	IFS/C/STP/LC/010	15.0-1500 mg/100gm
		Dietary Fiber	IFS/C/STP/FC/007, IS : 11062 :1984 Reaff 2005	0.5-50%
		<b>Vitamins</b>		
	Vitamin D3	IFS/C/STP/LC/004		2.0-300µg /100g
	Vitamin A	IFS/C/STP/LC/003		15-2000 µg /100g
	<b>Metals</b>			
	Iron	IFS/C/STP/AAS/006		1.0-10000 mg/100g
	Zinc			5.0-1000 mg/kg
	Arsenic	IFS/C/STP/AAS/004		0.10-1000 mg/kg
	Mercury			0.10-1000 mg/kg
	Cadmium			0.02-1000 mg/kg
	Lead			0.1-1000 mg/kg



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	<b>Milk and Milk products</b>	<b>Pesticide Residue</b>		
		Chlordane(cis, trans)	IFS/C/STP/GC/026,	0.01-10.0 mg/kg
		Chlorfenvinphos	AOAC: 2007.01 : 19th ed. (2012)	0.01-10.0 mg/kg
		Benomyl		0.01-10.0 mg/kg
		Malaxon		0.01-10.0 mg/kg
		2,4-D	IFS/CSTP/LC/022	0.01-10.0 mg/kg
		Monocrotophos		0.01-10.0 mg/kg
		Trichlorofon		0.01-10.0 mg/kg
		Carbendazim		0.01-10.0 mg/kg
		Carbofuran		0.01-10.0 mg/kg
		Phenthoate		0.01-10.0 mg/kg
		Alpha BHC	IFS/C/STP/GC/026 ,	0.025-10.0 mg/Kg
		Beta BHC	AOAC: 2007.01:19th ed. (2012)	0.025-10.0 mg/Kg
		Chlorothalonil		0.025-10.0 mg/Kg
		Chlorpyrifos (ethyl)		0.025-10.0 mg/Kg
		Delta BHC		0.025-10.0 mg/Kg
		Dicloran		0.025-10.0 mg/Kg
		Dieldrin		0.025-10.0 mg/Kg
		Endosulfan I		0.025-10.0 mg/Kg
		Endosulfan II		0.025-10.0 mg/Kg
		Endrin		0.025-10.0 mg/Kg
		Fenitrothion		0.025-10.0 mg/Kg
		Aldrin		0.025-10.0 mg/Kg
		Heptachlor		0.025-10.0 mg/Kg
		Heptachlor epoxide		0.025-10.0 mg/Kg
		Hexachlorobenzene (HCB)	IFS/C/STP/GC/026,	0.025-10.0 mg/Kg
		Lindane	AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/Kg
		Methoxychlor		0.025-10.0 mg/Kg
		Methyl Chlorpyrifos		0.025-10.0 mg/Kg
		o,p'-DDE		0.025-10.0 mg/Kg
		o,p'-DDT		0.025-10.0 mg/Kg
		Oxyfluorfen		0.025-10.0 mg/Kg
		p,p'-DDD		0.025-10.0 mg/Kg
		p,p'-DDE		0.025-10.0 mg/Kg
		p,p'-DDT		0.025-10.0 mg/Kg

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	<b>Milk and Milk products</b>	Simazine	IFS/C/STP/LC/022	0.025-10.0 mg/Kg
		Methidathion	IFS/C/STP/GC/026,	0.025-10.0 mg/Kg
		Phorate	AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/Kg
		Methyl Parathion		0.025-10.0 mg/Kg
		Methyl Pirimiphos	IFS/C/STP/LC/022	0.025-10.0 mg/Kg
		Malathion		0.025-10.0 mg/Kg
		Fonofos	IFS/C/STP/GC/026,	0.025-10.0 mg/Kg
		Fenthion	AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/Kg
		Ethion		0.025-10.0 mg/Kg
		Ethyl Parathion		0.025-10.0 mg/Kg
		DDVP (Dichlorvos)		0.025-10.0 mg/Kg
		Diazinon	IFS/C/STP/LC/022	0.025-10.0 mg/Kg
		Cyfluthrin	IFS/C/STP/GC/026,	0.025-10.0 mg/Kg
		Cypermethrin	AOAC: 2007.01 : 19th ed. (2012)	0.025-10.0 mg/Kg
		Deltamethrin		0.025-10.0 mg/Kg
		Permethrin		0.025-10.0 mg/Kg
		Fenvalerate		0.025-10.0 mg/Kg
		Fluvalinate		0.025-10.0 mg/Kg
		Cyhalothrin		0.025-10.0 mg/Kg
		<b>Fatty Acid Profile</b>		
	Saturated Fat	IS 548: 1976; Part II,		0.02-99.0 %
	Monounsaturated fatty Acid	AOCS Ce-1h-05		0.02-99.0 %
	Polyunsaturated Fat	IFS/C/STP/GC/006		0.02-99.0 %
	Trans Fat			0.02-99.0 %
	<b>Mycotoxins</b>			
	Aflatoxin B1	IFS/C/STP/LC/053		1.0-50 ug/kg
	Aflatoxin B2			1.0-50 ug/kg
	Aflatoxin G1			1.0-50 ug/kg
	Aflatoxin G2			1.0-50 ug/kg
	Aflatoxin M1	IFS/M/STP/033		0.05-50 ug/kg

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<b>13.</b>	<b>Meat and Meat Products</b>	Animal Fats/Pork Fat/Lard & Lard Derivative	IFS/C/STP/GC/006	0.02-99.0%	
		Fatty Acid profile	IFS/C/STP/GC/006	0.02-99.0 %	
		Ethyl alcohol	IFS/C/STP/GC/009	0.01-80%	
		Lead	IFS/STP/AAS/005	0.05-1000 mg/kg	
		Mercury	IFS/STP/AAS/005	0.1-1000 mg/kg	
		Cadmium	IFS/STP/AAS/005	0.02-1000 mg/kg	
		Chromium	IFS/STP/AAS/005	0.05-1000 mg/kg	
		Arsenic	IFS/STP/AAS/005	0.1-1000 mg/kg	
		Copper	IFS/STP/AAS/005	0.5-1000 mg/kg	
		<b>Pesticide Residues</b>			
		2,4-DDD	IFS/C/STP/GC/027,	0.01-10 mg/kg	
		2,4-DDE	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg	
		2,4-DDT		0.01-10 mg/kg	
		4,4-DDD		0.01-10 mg/kg	
		4,4-DDE		0.01-10 mg/kg	
4,4-DDT		0.01-10 mg/kg			
Alachlor		0.01-10 mg/kg			
Aldrin		0.01-10 mg/kg			
Alpha HCH		0.01-10 mg/kg			
Benomyl		0.01-10 mg/kg			
Beta HCH		0.01-10 mg/kg			
Bromopropylate		0.01-10 mg/kg			

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	<b>Meat and Meat Products</b>	Chlorfenvinfos	IFS/C/STP/GC/027,	0.01-10 mg/kg
		Chlorpyriphos	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Chlorpyriphos Methyl		0.01-10 mg/kg
		Chlordane(cis, trans)		0.01-10 mg/kg
		Cypermethrin (Alpha, Beta, Theta, Zeta)	IFS/C/STP/GC/027	0.01-10 mg/kg
		Delta HCH	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Deltamethrin		0.01-10 mg/kg
		Dichlorovos	IFS/C/STP/GC/027,	0.01-10 mg/kg
		Dieldrin	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Dithiocarbamate (Total)	IFS/STP/GC/011	0.005-10.0mg/kg
		Endosulphan	IFS/C/STP/GC/027,	0.01-10 mg/kg
		Endrin	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Ethion		0.01-10 mg/kg
		Fenitrothion		0.01-10 mg/kg
		Fenthion		0.01-10 mg/kg
		Fenvalerate		0.01-10 mg/kg
		Fonofos		0.01-10 mg/kg
		Heptachlor		0.01-10 mg/kg
		Heptachlor Epoxide		0.01-10 mg/kg
		Hexachlorobenzene		0.01-10 mg/kg
		Inorganic Bromide	IFS/C/STP/GC/016	0.5-500mg/kg
		Lindane	IFS/C/STP/GC/027	0.01-10 mg/kg
		Paraquat	IFS/C/STP/GC/027,	0.01-10 mg/kg
		Parathion	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Parathion Methyl		0.01-10 mg/kg
		Permethrin		0.01-10 mg/kg
	Phorate		0.01-10 mg/kg	
	Pyrethrin	IFS/C/STP/GC/027, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg	
	<b>Antibiotics Residues</b>			
	Chloramphenicol	IFS/C/STP/LC/060	0.1 - 50 µg/Kg	

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	<b>Meat and Meat Products</b>	<b>Nitrofurans</b>		
		Furazolidone (AOZ)	IFS/C/STP/LC/045	1.0 - 20.0 µg/Kg
		Furtadone(AMAZ)		1.0 - 20.0 µg/Kg
		Nitrofurantoin ( AHD)		1.0 - 20.0 µg/Kg
		Nitrofurazone ( SEM)		1.0 - 20.0 µg/Kg
		Fat	IS 5960 (P 3 ) - 1970 RA 2010, IS 5960 (P 4 ) - 1997 RA 2009	1-20%
		Ash	IS 5960 (P 2 ) - 2000 RA 2009	0.1-10%
	Acid insoluble ash	IFS/C/STP/FC/009	0.1-10%	
	Protein/nitrogen	IS 5960 (P 1 ) - 1996 RA 2009	1-30%	
<b>14.</b>	<b>Fruit Juices</b>	Patullin	IFS/C/STP/LC/045	5-100 ug/kg
		Total soluble solids	DGHS Manual, IFS/C/STP/FC/033	1-90 %
		Titrateable Acidity	DGHS Manual, IFS/C/STP/FC/032	0.01-20%
<b>15.</b>	<b>Herbs and Herbal Products</b>	<b>Pesticide Residue</b>		
		2,4-D	IFS/C/STP/LC/057	0.01-10 mg/kg
		Azinophos Methyl		0.01-10 mg/kg
		Diazinon		0.01-10 mg/kg
		Malathion		0.01-10 mg/kg
		Methidathion		0.01-10 mg/kg
		Phosalone		0.01-10 mg/kg
		Piperonyl butoxide		0.01-10 mg/kg
	Primiphos Methyl		0.01-10 mg/kg	

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	<b>Herbs and Herbal Products</b>	2,4-DDD	IFS/C/STP/GC/023, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		2,4-DDE		0.01-10 mg/kg
		2,4-DDT		0.01-10 mg/kg
		4,4-DDD		0.01-10 mg/kg
		4,4-DDE		0.01-10 mg/kg
		4,4-DDT		0.01-10 mg/kg
		Alachlor		0.01-10 mg/kg
		Aldrin		0.01-10 mg/kg
		Alpha HCH		0.01-10 mg/kg
		Beta HCH		0.01-10 mg/kg
		Bromopropylate		0.01-10 mg/kg
		Chlorfenvinfos		0.01-10 mg/kg
		Chlorpyriphos		0.01-10 mg/kg
		Chlorpyriphos Methyl	0.01-10 mg/kg	
		Chlordane(cis, trans)	0.01-10 mg/kg	
		Cypermethrin (Alpha, Beta, Theta, Zeta)	IFS/C/STP/GC/023, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Delta HCH		0.01-10 mg/kg
		Deltamethrin		0.01-10 mg/kg
		Dichlorovos		0.01-10 mg/kg
		Dieldrin		0.01-10 mg/kg
		Dithiocarbamate (Total)	IFS/STP/GC/011	0.005-10.00 mg/kg
		Endosulphan I	IFS/C/STP/GC/023, AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Endosulphan II		0.01-10 mg/kg
		Endosulphan Sulphate		0.01-10 mg/kg
		Endrin		0.01-10 mg/kg
		Ethion		0.01-10 mg/kg
	Fenitrothion	0.01-10 mg/kg		
	Fenvalerate	0.01-10 mg/kg		
	Fonofos	0.01-10 mg/kg		
	Heptachlor	0.01-10 mg/kg		
	Heptachlor Epoxide	0.01-10 mg/kg		

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	<b>Herbs and Herbal Products</b>	Hexachlorobenzene	IFS/C/STP/GC/023,	0.01-10 mg/kg
		Lindane	AOAC: 2007.01 : 19th ed. (2012)	0.01-10 mg/kg
		Oxythyochlorane		0.01-10 mg/kg
		Parathion		0.01-10 mg/kg
		Parathion Methyl		0.01-10 mg/kg
		Pentachloroaniline		0.01-10 mg/kg
		Permethrin		0.01-10 mg/kg
		Pyrethrin		0.01-10 mg/kg
		Quintozene (pentachloronitro benzene)		0.01-10 mg/kg
		Inorganic Bromide	IFS/C/STP/GC/016	0.5-500mg/kg
	<b>Toxic substances</b>			
	Nicotin	IFS/C/STP/GC/020	0.05-100 mg/kg	
	Hypericine	IFS/C/STP/LC/030	0.2-50 mg/kg	
<b>II. WATER</b>				
<b>1.</b>	<b>Packaged Drinking Water ( IS 14543:2004 ( Amend-7)</b>	<b>Organoleptic and Physical Parameters</b>		
		Colour, true Colour	IS 3025: 1987 (P-4) Reaff 2003 / APHA (22 <sup>nd</sup> Ed.)(2120 B)	1-100 Hazen unit
		Odour	IS 3025(P-5) : 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2150)	Qualitative
		Taste	IS 3025(P-8) : 1984 reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2160)	Qualitative
		Turbidity	IS 3025(P-10): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2130 B)	0.1-4000 NTU
		Total Dissolved Solids	IS 3025(P-16): 1984 Reaff 2006/ APHA (22 <sup>nd</sup> Ed.) (2540 C)	1-10000 mg/L
		pH	IS 3025(P-11): 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(4500- H <sup>+</sup> B)	2 to 12

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	<b>Packaged Drinking Water ( IS 14543:2004 ( Amend-7)</b>	<b>General Parameters</b>		
		Barium (as Ba)	Annex F of IS 13428: 2005 APHA (22 <sup>nd</sup> Ed.) (3111-D)/ IS-3025(P-2):2004	0.01-1000mg/L
		Copper (as Cu)	IS 3025:1992(P-42)Reaff 2003 APHA (22 <sup>nd</sup> Ed.) (3500-Cu) / IS-3025(P-2):2004	0.002-1000mg/L
		Iron (as Fe)	IS 3025(P-53): 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500- Fe B)	0.08-1000 mg/L
		Manganese (as Mn)	IS 3025(P-59) : 2006/ APHA (22 <sup>nd</sup> Ed.) (3500Mn) / IS-3025(P-2):2004	0.01-1000mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025(P-34) Reaff 2003 : 1988	0.1-1000 mg/L
		Nitrite (as NO <sub>2</sub> )	IS 3025(P-34) Reaff 2003: 1988 APHA(22 <sup>nd</sup> Ed.) (4500-NO <sub>2</sub> B)	0.002-500 mg/L
		Fluoride (as F)	IS 3025 (P-60): 2008/ APHA (22 <sup>nd</sup> Ed.) 4500-F C	0.02-10 mg/L
		Zinc (as Zn)	IS 3025(P-49): 1994 Reaff 1994/ APHA (22 <sup>nd</sup> Ed.)(3500-Zn) / IS-3025(P-2):2004	0.1-1000mg/L
		Silver (as Ag)	Annex J of IS 13428:2005/ APHA (22 <sup>nd</sup> Ed.) (3500Ag)	0.0001-1000 mg/L
	Aluminium (as Al)	IS 3025(P-55) : 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500Al)	0.01-1000 mg/L	



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	<b>Packaged Drinking Water ( IS 14543:2004 ( Amend-7)</b>	Chloride (as Cl)	IS 3025(P-32) : 1988 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (4500-Cl <sup>-</sup> B)	0.3-10000 mg/L
		Selenium (as Se)	IS 3025(P-56) : 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500Se)	0.001-1000 mg/L
		Sulphate (as SO <sub>4</sub> )	IS 3025(P-24) : 1986 Reaff 1992/ APHA (22 <sup>nd</sup> Ed.) (4500-SO <sub>4</sub> <sup>2-</sup> E)	1-10000 mg/L
		Alkalinity (as HCO <sub>3</sub> )	IS 3025(P-23): 1986Reaff 2003 / APHA (22 <sup>nd</sup> Ed.)(2320 A)	0.5-10000 mg/L
		Calcium (as Ca)	IS 3025(P-40) : 1991 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (3500-Ca B)	0.4-10000 mg/L
		Magnesium (as Mg)	IS 3025(P-46) : 1994 Reaff 2003	1-10000 mg/L
		Sodium (as Na)	IS 3025(P-45) : 1993 Reaff 2005	1.0-10000 mg/L
		Residual free chlorine	IS 3025(P-26): 1986 Reaff 2003 / APHA (22 <sup>nd</sup> Ed.)(4500-Cl B)	0.05-10000 mg/L
		Phenolic compounds (asC <sub>6</sub> H <sub>5</sub> OH)	IS 3025(P-43) : 1992 Reaff 2003/APHA (22 <sup>nd</sup> Ed.) (5530 C)	0.0005-1000 mg/L
		Mineral Oil	Clause 6 of IS 3025(P-39) : 1991 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)-5520 C	0.5-1000 mg/L
	Anionic Surface active agents (as MBAS)	Annex K of IS 13428 : 2005/ APHA (22 <sup>nd</sup> Ed.) (5540 C)	0.05-1000 mg/L	

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	<b>Packaged Drinking Water ( IS 14543:2004 ( Amend-7)</b>	Sulphide (as H <sub>2</sub> S)	IS 3025(P-29): 1986 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(4500-S <sup>2-</sup> )	0.5-1000 mg/L
		Antimony (as Sb)	IS 15303 : 2003	0.002-1000 mg/L
		Borates (as B)	Annex H of IS 13428 : 2005/ IS-3025(P-2):2004	0.2-1000 mg/L
		<b>Toxic Substances</b>		
		Mercury (as Hg)	IS 3025(P-48) : 1994 (RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500Hg)	0.0005-1000 mg/L
		Cadmium (as Cd)	IS 3025(P-41) : 1992( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.)(3500-Cd)	0.0005-1000 mg/L
		Arsenic (as As)	IS 3025(P-37) : 1988 (RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500As)	0.001-1000 mg/L
		Cyanide (as CN)	IS 3025(P-27):1986( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (4500 CN)	0.02-1000 mg/L
		Lead (as Pb)	IS 3025(P-47) : 1994 ( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500Pb)	0.001-1000 mg/L
		Chromium (as Cr)	Annex J of IS 13428 : 2005/ APHA (22 <sup>nd</sup> Ed.) (3500Cr) / IS-3025(P-2):2004	0.002-1000 mg/L
		Nickel (as Ni)	Annex L of IS 13428 : 2005/ APHA (22 <sup>nd</sup> Ed.) (3500Ni)	0.01-1000 mg/L

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Drinking Water</b> ( IS 14543:2004 ( Amend-7)	<b>Polychlorinated biphenyle (PCB)</b> PCB 28(2,4,4'-trichlorobiphenyl) PCB 31(2,4',5-trichlorobiphenyl) PCB 52(2,2',5,5'-tetrachlorobiphenyl) PCB 101(2,2',4,5,5'-pentachlorobiphenyl) PCB 138(2,2',3,4,4',5'-hexachlorobiphenyl) PCB 153(2,2',4,4',5,5'-hexachlorobiphenyl) PCB 180(2,2',3,4,4',5,5'-heptachlorobiphenyl)	IFS/C/STP/GC/003, APHA (22 <sup>nd</sup> Ed.) 2005 (6431)	0.05-20.0 µg/L
		<b>Polynuclear aromatic hydrocarbons</b> Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k) fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Chrysenes Dibenzo(a,h)anthracene Fluoranthene Fluorene indeno(1,2,3-c,d)pyrene Naphthalene Phenanthrene Pyrene	IFS/C/STP/GC/003, / APHA (22 <sup>nd</sup> Ed.) 2005 (6440)	0.05-20.0 µg/L

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>2.</b>	<b>Packaged Natural Mineral Water IS 13428:2005 (Amend-2)</b>	<b>Organoleptic and Physical Parameters</b>		
		Colour, true colour	IS 3025(P-4):1983Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(2120 B)	1-100 Hazen unit
		Odour	IS 3025(P-5) : 1983Reaff 2002 / APHA (22 <sup>nd</sup> Ed.) (2150)	Qualitative
		Taste	IS 3025(P-8) : 1984reaff 2002/ APHA ((22 <sup>nd</sup> Ed.)(2160)	Qualitative
		Turbidity	IS 3025(P-10) :1984reaff 2002 / APHA ((22 <sup>nd</sup> Ed.)(2130 B)	0.1-4000 NTU
		Total Dissolved Solids	IS3025(P-16):1984 Reaff 2006/ APHA ((22 <sup>nd</sup> Ed.) (2540 C)	1.0-10000 mg/L
		pH	IS 3025(P-11): 1983Reaff 2002/ APHA ((22 <sup>nd</sup> Ed.)(4500- H <sup>+</sup> B)	2 to 12
		<b>General Parameters</b>		
		Nitrate (as NO <sub>3</sub> )	IS 3025(P-34) : 1988 Reaff 2003	0.1-1000 mg/L
		Nitrite (as NO <sub>2</sub> )	IS 3025(P-34): 1988 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(4500-NO <sub>2</sub> <sup>-</sup> B)	0.002-500 mg/L
		Sulphide (as H <sub>2</sub> S)	IS 3025(P-29):1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(4500-S <sup>2-</sup> )	0.5-1000 mg/L
		Manganese (as Mn)	IS 3025(P-59): 2006/ APHA ((22 <sup>nd</sup> Ed.) (3500Mn) / IS-3025(P-2):2004	0.01-1000 mg/L
		Copper (as Cu)	IS 3025(P-42) : 1992 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.) (3500Cu) / IS-3025(P-2):2004	0.002-1000 mg/L

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Natural Mineral Water IS 13428:2005 (Amend-2)</b>	Zinc (as Zn)	IS 3025(P-49): 1994 Reaff 1994/ APHA ((22 <sup>nd</sup> Ed.)(3500-Zn)	0.1-1000 mg/L
		Fluoride (as F)	IS 3025 (P-60) : 2008 / APHA ((22 <sup>nd</sup> Ed.) 4500-F <sup>-</sup>	0.02-10mg/L
		Barium (as Ba)	Annex F of IS 13428 : 2005/ APHA ((22 <sup>nd</sup> Ed.) (3111-D) / IS-3025(P-2):2004	0.01-1000 mg/L
		Antimony(as Sb)	IS 15303: 2003/ APHA ((22 <sup>nd</sup> Ed.) (3500Sb)	0.002-1000 mg/L
		Borates (as B)	Annex H of IS 13428 : 2005/ IS-3025(P-2):2004	0.2-1000 mg/L
		Silver (as Ag)	Annex J of IS 13428 : 2005	0.0001-1000mg/L
		Chloride (as Cl)	IS 3025 (P-32): 1988 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.) (4500-Cl <sup>-</sup> B)	0.3-10000 mg/L
		Sulphate (as SO <sub>4</sub> )	IS 3025(P-24) : 1986 Reaff 1992/ APHA ((22 <sup>nd</sup> Ed.)(4500-SO <sub>4</sub> <sup>2-</sup> E)	1-10000 mg/L
		Magnesium (as Mg)	IS 3025(P-46) : 1994 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.) (3500Mg)	1-10000 mg/L
		Calcium (as Ca)	IS 3025(P-40): 1991 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(3500-Ca B)	0.4-10000 mg/L
		Sodium (as Na)	IS 3025(P-45) : 1993 Reaff 2003	1.0-10000 mg/L
		Alkalinity (as HCO <sub>3</sub> )	IS 3025(P-23) : 1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(2320 A)	0.5-10000 mg/L

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Natural Mineral Water IS 13428:2005 (Amend-2)</b>	Selenium (as Se)	IS 3025(P-56) : 2003, Reaff 2009	0.001-1000 mg/L
		Mineral Oil	IS 3025(P-39): 1991 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)-5520 C;	0.5-1000 mg/L
		Phenolic compounds (asC <sub>6</sub> H <sub>5</sub> OH)	IS 3025(P-43) :1992 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(5530 C)	0.0005-1000mg/L
		Anionic Surface active agents	Annex K of IS 13428 : 2005/ APHA ((22 <sup>nd</sup> Ed.) (5540 C)	0.05-1000 mg/L
		<b>Toxic Substances</b>		
		Arsenic (as As)	IS 3025(P-37): 1988 Reaff 2003	0.001-1000 mg/L
		Cadmium (as Cd)	IS 3025(P-41): 1992 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(3500-Cd)	0.0005-1000 mg/L
		Cyanide (as CN)	IS 3025(P-27): 1986 Reaff 2003	0.005-1000 mg/L
		Chromium (as Cr)	Annex J of IS 13428: 2005/ IS-3025(P-2):2004	0.002-1000 mg/L
		Mercury (as Hg)	IS 3025(P-48): 1994 Reaff 2003	0.0005-1000 mg/L
		Lead (as Pb)	IS 3025(P-47): 1994 Reaff 2003	0.001-1000 mg/L
		Nickel (as Ni)	Annex L of IS 13428: 2005	0.01-1000 mg/L
		<b>Polychlorinated biphenyle (PCB)</b>		
		PCB 28(2,4,4'-trichlorobiphenyl)	IFS/C/STP/GC/003 APHA (22 <sup>nd</sup> Ed.) 2005 (6431)	0.05-20.0 µg/L
		PCB 31(2,4',5-trichlorobiphenyl)		
		PCB 52(2,2',5,5'-tetrachlorobiphenyl)		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Packaged Natural Mineral Water IS 13428:2005 (Amend-2)</b>	PCB 101(2,2',4,5,5'-pentachlorobiphenyl) PCB 138(2,2',3,4,4',5'-hexachlorobiphenyl) PCB 153(2,2',4,4',5,5'-hexachlorobiphenyl) PCB 180(2,2',3,4,4',5,5'-heptachlorobiphenyl)	IFS/C/STP/GC/003 APHA (22 <sup>nd</sup> Ed.) 2005 (6431)	0.05-20.0 µg/L
		<b>Polynuclear aromatic hydrocarbons</b> Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k) fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Chrysenes Dibenzo(a,h)anthracene Fluoranthene Fluorene indeno(1,2,3-c,d)pyrene Naphthalene Phenanthrene Pyrene	IFS/C/STP/GC/003 APHA (22 <sup>nd</sup> Ed.) 2005 (6440)	0.05-20.0 µg/L
<b>3.</b>	<b>Drinking Water (IS 10500:2012)</b>	<b>Essential Characteristic</b>		
		Colour	IS 3025(P-4): 1983 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(2120 B)	1-100 Hazen unit
		Odour	IS 3025(P-5): 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2150)	Qualitative

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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Drinking Water (IS 10500:2012)</b>	pH	IS 3025(P-11): 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(4500- H <sup>+</sup> B)	2 to 12
		Taste	IS 3025(P-8): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2160)	Qualitative
		Turbidity	IS 3025(P-10): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2130 B)	0.10-4000 NTU
		Total Dissolved Solids	IS 3025(P-16): 1984 Reaff 2006/ APHA (22 <sup>nd</sup> Ed.) (2540 C)	1-10000 mg/L
		Aluminium (as Al)	IS 3025(P-55) : 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500Al)	0.01-1000 mg/L
		Ammonia (as total ammonia-N)	IS 3025(P-34)/ APHA(4500-N <sub>org</sub> B)	0.50-1000 mg/L
		Anionic Detergents (as MBAS)	Annex K of IS 13428: 2005/ APHA (22 <sup>nd</sup> Ed.)(5540 C)	0.05-1000 mg/L
		Barium (as Ba)	Annex F of IS 13428:2005/ APHA (3111-D)/ IS-3025(P-2):2004	0.02-10 mg/L
		Boron (as B)	Annex H of IS 13428:2005 or IS 3025(P-2):2004	0.2-1000 mg/L
		Calcium (as Ca)	IS 3025(P-40): 1991 Reaff 2003 / APHA (22 <sup>nd</sup> Ed.)(3500-Ca B)	0.4-10000 mg/L
		Chloramines (as Cl <sub>2</sub> )	IS 3025(P-26):1996	1-10000 mg/L
	Chloride (as Cl)	IS 3025 (P-32): 1988 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (4500-Cl <sup>-</sup> B)	0.3-10000 mg/L	



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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Drinking Water (IS 10500:2012)</b>	Copper (as Cu)	IS 3025(P-42):1992 Reaff 2003 or IS 3025(P-2):2004	0.002-1000mg/L
		Fluoride (as F)	IS 3025 (P-60) : 2008/ APHA (22 <sup>nd</sup> Ed.) (4500-F C)	0.02-10 mg/L
		Free Residual Chlorine	IS 3025(P-26): 1986 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(4500-Cl B)	0.05-10000 mg/L
		Iron (as Fe)	IS 3025(P-53):2003 reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500- Fe B)	0.08-1000mg/L
		Magnesium (as Mg)	IS 3025(P-46) : 1994 reaff 2003	1-10000 mg/L
		Manganese (as Mn)	IS 3025(P-59): 2006 or IS 3025 (P-2):2004	0.01-1000mg/L
		Mineral Oil	IS 3025(P-39): 1991 Reaff 2003	0.50-1000 mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025(P-34): 1988 Reaff 2003	0.1-1000 mg/L
		Phenolic compounds	IS 3025(P-43): 1992 reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (5530 C)	0.0005-1000 mg/L
		Selenium (as Se)	IS 3025(P-56): 2003 Reaff 2009	0.001-1000 mg/L
		Silver (as Ag)	Annex J of IS 13428 : 2005	0.0001-1000 mg/L
		Sulphate (as SO <sub>4</sub> )	IS 3025(P-24): 1986 Reaff 1992/ APHA (22 <sup>nd</sup> Ed.) (4500-SO <sub>4</sub> <sup>2-</sup> E)	1-10000 mg/L
		Sulphide (as H <sub>2</sub> S)	IS 3025(P-29):1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(4500-S <sup>2-</sup> )	0.050-1000 mg/L

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	<b>Drinking Water (IS 10500:2012)</b>	Total Alkalinity ( as CaCO <sub>3</sub> )	IS 3025(P-23) : 1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(2320 A)	0.50-10000 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025(P-21) : 1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(2320 A)	0.50-10000 mg/L
		Zinc (as Zn)	IS 3025(P-49): 1994 Reaff 1994/ or IS 3025(P-2) APHA ((22 <sup>nd</sup> Ed.)(3500-Zn)	0.1-1000 mg/L
		Cadmium (as Cd)	IS 3025 (P-41): 1992 reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(3500-Cd)	0.0005-1000 mg/L
		Cyanide (as CN)	Cl.2 of IS 3025(P-27):1986 Reaff 2003	0.005-1000 mg/L
		Lead (as Pb)	IS 3025(P-47) : 1994 Reaff: 2003/ APHA (22 <sup>nd</sup> Ed.) (3500Pb)	0.001-1000 mg/L
		Mercury (as Hg)	IS 3025(P-48): 1994 Reaff 2003	0.0005-1000 mg/L
		Molybdenum (as Mo)	IS 3025(P-2) : 2004	0.01-1000 mg/L
		Nickel (as Ni)	Annex L of IS 13428: 2005	0.01-1000 mg/L
		Total Arsenic (as As)	IS 3025(P-37): 1988 Reaff 2003	0.001-1000mg/L
		Total Chromium (as Cr)	Annex J of IS 13428: 2005 or IS 3025(P-2) : 2004	0.02-1000mg/L
		Potassium	IS:3025 (P-45): 1993 Reaff 2003	1.0-1000 mg/L
		Acidity	IS:3025 (P-22): 1986 Reaff 1998/ APHA (22 <sup>nd</sup> Ed.) 2310B	1.0-5000L

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	<b>Drinking Water (IS 10500:2012)</b>	<b>Polynuclear aromatic hydrocarbons</b>		
		Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k) fluoranthene Benzo(g,h,i)perylene Benzo(a)pyrene Chrysenes Dibenzo(a,h)anthracene Fluoranthene Fluorene indeno(1,2,3-c,d)pyrene Naphthalene Phenanthrene Pyrene	IFS/C/STP/GC/003; APHA (22 <sup>nd</sup> Ed.) 2009-6440	0.05-20.0 µg/L
		<b>Polychlorinated biphenyl (PCB)</b>		
		PCB 28(2,4,4'-trichlorobiphenyl) PCB 31(2,4',5-trichlorobiphenyl) PCB 52(2,2',5,5'-tetrachlorobiphenyl) PCB 101(2,2',4,5,5'-pentachlorobiphenyl) PCB 138(2,2',3,4,4',5'-hexachlorobiphenyl) PCB 153(2,2',4,4',5,5'-hexachlorobiphenyl) PCB 180(2,2',3,4,4',5,5'-heptachlorobiphenyl) Trihalomethans	IFS/C/STP/GC/003; APHA (22 <sup>nd</sup> Ed.) 2009 (6630)	0.05-20.0 µg/L



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	<b>Drinking Water: (Packaged Drinking Water IS 14543:2004; Packaged Natural Mineral Water IS 13428:2005 and Drinking Water IS 10500)</b>	Malathion	IFS/C/STP/LC/019	0.01-20.0 µg/l
		Malaoxon	IFS/C/STP/GC/003, AOAC 990.06 (2005), 19th ed. (2012)	0.01-20.0 µg/l
		Monocrotophos	IFS/C/STP/LC/019	0.01-20.0 µg/l
		Phorate	IFS/C/STP/GC/003, AOAC 990.06, 19th ed. (2012)	0.01-20.0 µg/l
		Phorate Sulphon		0.01-20.0 µg/l
		Phorate Sulfoxide		0.01-20.0 µg/l
		Heptachlor		0.01-20.0 µg/l
		Heptachlor Epoxide		0.01-20.0 µg/l
		Endrin		0.01-20.0 µg/l
		Endrin Aldehyde		0.01-20.0 µg/l
<b>5.</b>	<b>Water for processed food industry (IS 4251:1967)</b>	<b>Physical and chemical Parameters</b>		
	Colour		IS 3025(P-4):1983Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(2120 B)	1-100 Hazen unit
	Turbidity		IS 3025(P-10) :1984reaff 2002 / APHA ((22 <sup>nd</sup> Ed.)(2130 B)	0.1-4000 NTU
	Odour		IS 3025(P-5) : 1983Reaff 2002 / APHA (22 <sup>nd</sup> Ed.) (2150)	Qualitative
	pH		IS 3025(P-11): 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(4500- H <sup>+</sup> B)	2 to 12
	Total Solids		IS 3025(P-15)/ APHA (2540 B)	1.0-20000 mg/L
	Total Hardness (as CaCO <sub>3</sub> )		IS 3025(P-21) : 1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(2320 A)	0.50-10000 mg/L

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	<b>Water for processed food industry (IS 4251:1967)</b>	Sulphate (as SO <sub>4</sub> )	IS 3025(P-24) : 1986 Reaff 1992/ APHA (22 <sup>nd</sup> Ed.) (4500-SO <sub>4</sub> <sup>2-</sup> E)	1-10000 mg/L
		Fluoride (as F)	IS 3025 (P-60): 2008/ APHA (22 <sup>nd</sup> Ed.) 4500-F C	0.02-10 mg/L
		Chloride (as Cl)	IS 3025(P-32) : 1988 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (4500-Cl B)	0.3-10000 mg/L
		Cyanide (as CN)	IS 3025(P-27):1986( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (4500 CN)	0.02-1000 mg/L
		Selenium (as Se)	IS 3025(P-56) : 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500Se)	0.001-1000 mg/L
		Iron (as Fe)	IS 3025(P-53): 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500- Fe B)	0.08-1000mg/L
		Magnesium (as Mg)	IS 3025(P-46) : 1994 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.) (3500Mg)	1-10000 mg/L
		Manganese (as Mn)	IS 3025(P-59) : 2006/ or IS-3025(P-2):2004:2004:2004 APHA (22 <sup>nd</sup> Ed.) (3500Mn)	0.01-1000.00mg/L
		Copper (as Cu)	IS 3025(P-42) : 1992 Reaff 2003/ or IS-3025(P-2):2004:2004:2004 APHA ((22 <sup>nd</sup> Ed.) (3500Cu)	0.002-1000 mg/L
		Lead (as Pb)	IS 3025(P-47) : 1994 (RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500Pb)	0.001-1000 mg/L
		Chromium (as Cr <sup>6+</sup> )	APHA(3500-Cr B)/ IS 3025(P-52)	0.02-1000 mg/L

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	<b>Water for processed food industry (IS 4251:1967)</b>	Zinc (as Zn)	IS 3025(P-49): 1994 Reaff 1994/ or IS-3025(P-2):2004:2004:2004 APHA (22 <sup>nd</sup> Ed.)(3500-Zn)	0.1-1000 mg/L
		Arsenic (as As)	IS 3025(P-37) : 1988 (RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500As)	0.001-1000 mg/L
		Nitrate (as N)	IS 3025(P-34)	0.1-1000 mg/L
		Phenolic Substances (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025(P-43) : 1992 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (5530 C)	0.0005-1000.000 mg/L
		Cadmium (as Cd)	IS 3025(P-41) : 1992( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.)(3500-Cd)	0.0005-1000 mg/L
		Mercury (as Hg)	IS 3025(P-48) : 1994 ( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500Hg)	0.0005-1000 mg/L
		Calcium (as Ca)	IS 3025(P-40)/APHA(3500-Ca B)	0.4-10000 mg/L
		Alkalinity (as CaCO <sub>3</sub> )	IS 3025(P-23): 1986Reaff 2003 / APHA (22 <sup>nd</sup> Ed.)(2320 A)	0.5-10000 mg/L
		Carbonate Hardness	IS 3025(P-51)/APHA 2340 C	1.0-10000 mg/L
<b>6.</b>	<b>Water For Swimming Pools (IS 3328:1993)</b>	<b>Characteristic pH</b>	IS 3025(P-23): 1986 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(2320 A)	0.50-10000 mg/L
		Total Alkalinity(as CaCO <sub>3</sub> )	IS 3025(P-55): 2003 reaff 2009 APHA (22 <sup>nd</sup> Ed.)(3500-Al)	0.01-1000 mg/L
		Aluminium (as Al)	IS 3025(P-26): 1986 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(4500-C1 B)	0.05-10000 mg/L

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	<b>Water For Swimming Pools (IS 3328:1993)</b>	Total Residual Chlorine a) At inlet b) At outlet	IS 3025(P-63): 2007	0.10-1000 mg/L
		Oxygen Absorbed in 4 hours at 27 <sup>0</sup> C	IS 3025(P-16): 1984 reaff 2006/ APHA (22 <sup>nd</sup> Ed.) (2540 C)	1.00-10000 mg/L
		Total Dissolved Solids	IS 3025 (P-32): 1988 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (4500-Cl B)	0.30-10000 mg/L
		Chloride(as Cl)	IS 3025(P-53): 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500- Fe B)	0.08-1000 mg/L
		Iron (as Fe)	IS 7017-1973/ IS 3025(P-47): 1994 Reaff 2003	0.001-1000 mg/L
		Heavy Metal (as Pb)	IS 3025(P-4): 1983 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(2120 B)	1-100 Hazen unit
		Colour	IS 3025(P-10): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2130 B)	0.10-4000 NTU
		Turbidity	IS 3025(P-5): 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2150)	Qualitative
		Odour	IS 3025(P-8): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2160)	Qualitative
		Taste	IS 3025(P-8): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2160)	Qualitative



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### III. POLLUTION & EFFLUENT

<b>1. Effluent Water (Environment Protection Act, 1986)</b>	<b>Parameters</b>			
	Colour		IS 3025(P-4):1983Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(2120 B)	1-100 Hazen unit
	Odour		IS 3025(P-5) : 1983Reaff 2002 / APHA (22 <sup>nd</sup> Ed.) (2150)	Qualitative
	Suspended Solids		IS 3025(P-17): 1984 reaff 2002/ APHA (22 <sup>nd</sup> Ed.) (2540 D)	1.0-10000 mg/L
	pH		IS 3025(P-11): 1983 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(4500- H <sup>+</sup> B)	2 to 12
	Temperature		IS 3025(P-9): 1984 Reaff 2002/ APHA (22 <sup>nd</sup> Ed.)(2550 B)	5-50°C
	Oil & grease		IS 3025(P-39): 1991 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (5520 B)	0.5-1000 mg/L
	Total Residual Chlorine		IS 3025(P-26): 1986 Reaff 2003 / APHA (22 <sup>nd</sup> Ed.)(4500-Cl B)	0.05-10000 mg/L
	Ammonical Nitrogen (as N)		IS 3025(P-34): 1988 reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(4500-NH <sub>3</sub> C)	1.0-1000 mg/L
	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )		IS 3025(P-34): 1988 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(4500-N <sub>org</sub> B)	1.0-1000 mg/L
Free Ammonia (as NH <sub>3</sub> )		APHA (22 <sup>nd</sup> Ed.)(4500-NH <sub>3</sub> C)	0.5-1000 mg/L	
Silica (as SiO <sub>2</sub> )		IS 3025(P-35): 1988 APHA (22 <sup>nd</sup> Ed.)(4500-SiO <sub>2</sub> C)	0.5-1000 mg/L	

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	<b>Effluent Water (Environment Protection Act, 1986)</b>	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(P-44): 1993 Reaff 2003	0.1-20000 mg/L
		Chemical Oxygen Demand (COD)	IS 3025(P-58): 2006/ APHA (22 <sup>nd</sup> Ed.) (5530 C)	8.0-50000 mg/L
		Arsenic (as As)	IS 3025(P-37): 1988 ( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500As)	0.001-1000 mg/L
		Mercury (as Hg)	IS 3025(P-48) : 1994 ( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500Hg)	0.0005-1000 mg/L
		Lead (as Pb)	IS 3025(P-47): 1994 ( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (3500Pb)	0.001-1000.00 mg/L
		Cadmium (as Cd)	IS 3025(P-41) : 1992( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.)(3500-Cd)	0.0005-1000 mg/L
		Hexavalent Chromium (as Cr <sub>+6</sub> )	IS3025 (P-52): 2003 / APHA (22 <sup>nd</sup> Ed.) (3500-Cr B)/ Annex. J of IS13428	0.05-1000 mg/L
		Total Chromium ( Cr)	Annex J of IS 13428 : 2005/ or IS-3025(P-2):2004:2004:2004/ APHA (22 <sup>nd</sup> Ed.) (3500Cr)	0.002-1000 mg/L
		Copper (as Cu)	IS 3025(P-42) : 1992 Reaff 2003/ or IS-3025(P-2):2004:2004:2004 APHA ((22 <sup>nd</sup> Ed.) (3500Cu)	0.002-1000 mg/L
		Zinc (as Zn)	IS 3025(P-49): 1994 Reaff 1994/ or IS-3025(P-2):2004:2004:2004 APHA (22 <sup>nd</sup> Ed.)(3500-Zn)	0.1-1000.000 mg/L

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	<b>Effluent Water (Environment Protection Act, 1986)</b>	Selenium (as Se)	IS 3025(P-56) : 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500Se)	0.001-1000 mg/L
		Nickel (as Ni)	Annex L of IS 13428 : 2005/ APHA (22 <sup>nd</sup> Ed.) (3500Ni)	0.01-1000 mg/L
		Cyanide (as CN)	IS 3025(P-27):1986( RA: 2003)/ APHA (22 <sup>nd</sup> Ed.) (4500 CN)	0.02-1000 mg/L
		Fluoride (as F)	IS 3025 (P-60): 2008/ APHA (22 <sup>nd</sup> Ed.) 4500-F <sup>-</sup> C	0.02-10 mg/L
		Dissolved Phosphate (as P)	IS 3025 (P-31): 1988 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.)(4500-P D)	0.05-1000 mg/L
		Sulphide (as S)	IS 3025(P-29):1986 Reaff 2003/ APHA ((22 <sup>nd</sup> Ed.)(4500-S <sup>2-</sup> )	0.050-1000 mg/L
		Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025(P-43) : 1992 Reaff 2003/ APHA (22 <sup>nd</sup> Ed.) (5530 C)	0.0005-1000 mg/L
		Manganese	IS 3025(P-59) : 2006/ or IS-3025(P-2):2004:2004:2004 APHA (22 <sup>nd</sup> Ed.) (3500Mn)	0.01-1000mg/L
		Iron (as Fe)	IS 3025(P-53): 2003 Reaff 2009/ APHA (22 <sup>nd</sup> Ed.) (3500- Fe B)	0.08-1000mg/L
		Nitrate Nitrogen	IS 3025(P-34): 1988 Reaff 2003	0.1-1000 mg/L

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### III. PLASTICS & PLASTIC PRODUCTS

<b>1. Packaging Materials: Container for Packaged Drinking Water (IS 15410:2003) (Amend-2)</b>	<b>Requirements</b>			
	Migration Test		IS:9845-1998	0.1-500mg/dm <sup>2</sup> or 1-1000mg/L
	Colour Migration Test		IS:9845-1998	Qualitative
	Water Potability test		IS:3025(P-58,P-8): 2006,1984 Reaff 2002	Qualitative

### IV. COSMETICS & ESSENTIAL OILS

<b>1. Laundry soap IS:285-92</b>	Total fatty matter		IS:286-1978	10-90%
	Rosin acids		IS:286-1978	0.1 -40%
	Un saponified fatty matter		IS:286-1978	0.1- 50%
	Free caustic alkali as NaOH		IS:286-1978	0.1-10 %
	Matter insoluble in alcohol		IS:286-1978	0.5-40%
	Chlorides ,as NaCl		IS:286-1978	0.1-20%
	Glycerol		IS:286-1978	0.1-20%
	Titre of total fatty acids		IS:286-1978	0.1-50%
	Lather (ml)		IS 6356: 2001	100-500 ml
Active Content		IS 4955: 2001	0.05- 45 %	

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<b>2.</b>	<b>Soap IS:2888-2004</b>	Total fatty matter	IS:286-1978	10-90 %
		Rosin acids	IS:286-1978	0.05- 40 %
		Free caustic alkali as NaOH	IS:286-1978	0.05- 2.5 %
		Matter insoluble in alcohol	IS:286-1978	0.05- 50 %
		Chlorides ,as NaCl	IS:286-1978	0.05- 5 %
		Free carbonated alkali % by mass	IS:286-1978	0.05- 5 %
		Lather (ml)	IS 6356: 2001	100-500 ml
<b>3.</b>	<b>Liquid Toilet Soap IS:4199-2001</b>	Total fatty matter	IS:286-1978	0.05- 90%
		Matter insoluble in alcohol	IS:286-1978	0.05- 20 %
		Free caustic alkali (as K <sub>2</sub> O)	IS:4199-2001	0.05- 10 %
		Lather (ml)	IS 6356: 2001	100-500 ml
<b>4.</b>	<b>Baby Toilet Soap IS:10523-1983</b>	Total fatty matter	IS:286-1978	0.05- 90 %
		Matter insoluble in alcohol	IS:286-1978	0.05- 5 %
		Free caustic alkali (as NaOH)	IS:4199-2001	0.05- 20 %
		Moisture and Volatile matter	IS:286-1978	0.05- 25 %
		Matter insoluble in Water	IS:286-1978	0.05- 10%
		Chlorides ,as NaCl	IS:286-1978	0.05- 5%

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	<b>Baby Toilet Soap IS:10523-1983</b>	Free carbonated alkali % by mass	IS:286-1978	0.05- 2.5%
		Freedom from Rosin	IS:286-1978	0.05- 40%
		Freedom from Grit	IS:10523-1983	Qualitative
		Nickel	IS:10523-1983	Qualitative
		Iron	IFS/C/STP/AAS/004	1.0-10000 mg/100g
		Copper	IFS/C/STP/AAS/004	0.5-1000 mg/kg
		Lather (ml)	IS 6356: 2001	100-500 ml
<b>5.</b>	<b>Detergent Bar (IS 8180: 1992)</b>	Active Detergent	IS 4955: 2001	0.05- 45%
		Sodium tri-polyphosphate %	IS 4955: 1992	0.05- 20%
		Active Alkalinity	IS 4955: 1992	0.05- 30ml
		Lather (ml)	IS 6356: 2001	100-500 ml
<b>6.</b>	<b>Detergent Powder (IS 2887: 1993)</b>	Total fatty matter	IS:286-1978	10-90%
		Rosin acids	IS:286-1978	0.05- 40%
		Un saponified fatty matter	IS:286-1978	0.05- 50 %
		Free caustic alkali as NaOH	IS:286-1978	0.05- 5 %
		Matter insoluble in alcohol	IS:286-1978	0.05- 50 %
		Chlorides ,as NaCl	IS:286-1978	0.05- 10 %

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	<b>Detergent Powder (IS 2887: 1993)</b>	Glycerol	IS:286-1978	0.05- 10 %
		Active Alkalinity	IS 4955: 1992	0.05- 30ml
		Lather (ml)	IS 6356: 2001	100-500 ml
		Active Content	IS 4955: 2001	0.05- 45%
7.	<b>Shampoo IS 7884: 2004</b>	Non Volatile alcohol matter	IS 7884: 2004	0.05- 20%
		pH	pH meter	1.0-12
		Foam Height	IS 6356: 2001	100-500 ml
8.	<b>Glass Cleaner IS: 8540-1986</b>	Water Content	IS 8540: 1986	1-95 %
		Flash Point	DGHS Manual	5-50°C
		Non Volatile Matters	IS: 8540-1986	0.1-25 %
		pH value	IS: 8540-1986	1.0- 12
9.	<b>Toilet Cleaner Liquid IS: 7983-1994</b>	Hydrochloric acid	IS: 7983-1994	1- 60%
		Determination of Sediment	IS: 7983-1994	1-20%

**-X-X-X-X-X-X-X-X-X-X-X-X-**

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