

Laboratory	Export Inspection Agency, Laboratory-Pilot Test House, E-3, MIDC, Andheri (East), Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.04.2014
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I. FOOD AND AGRICULTURAL PRODUCTS

1.	Fish and Fishery Products	Chloramphenicol	PTH/CHEM/SOP/001 (Date of Issue-08.12.2006)	0.15 to 0.6 µg/kg
		AOZ	PTH/CHEM/SOP/003	0.5 to 5.0 µg/kg
		AMOZ	(Date of Issue-14.11.2006)	0.5 to 5.0 µg/kg
		AHD		0.5 to 5.0 µg/kg
		SEM		0.5 to 5.0 µg/kg
		Ronidazole	PTH/CHEM/SOP/024	0.5 to 5.0 µg/kg
		Metronidazole	(Date of Issue- 17.10.2012)	0.5 to 5.0 µg/kg
		Tetracycline & its 4-Epimer	PTH/CHEM/SOP/037	10 to 500 µg/kg
		Oxytetracycline & its 4-Epimer	(Date of Issue-15.05.2012)	10 to 500 µg/kg
		Chlortetracycline & its 4-Epimer		10 to 500 µg/kg
		Oxolinic Acid	PTH/CHEM/SOP/004 (Date of Issue-09.01.2006)	10 to 500 µg/kg
		Nitrofurazone	PTH/CHEM/SOP/046	1 to 20 µg/kg
		Nitrofurantoin	(Date of Issue-09.01.2006)	1 to 20 µg/kg
		Furazolidone		1 to 20 µg/kg
		Furaltadone		1 to 20 µg/kg
		Sulphanilamide	PTH/CHEM/SOP/028	5 to 150 µg/kg
		Sulphadiazine	(Date of Issue-27.02.2012)	5 to 150 µg/kg
		Sulphathiazole		5 to 150 µg/kg
		Sulphamerazine		5 to 150 µg/kg
		Sulphamethazine		5 to 150 µg/kg

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	Fish and Fishery Products	Sulphamethizole	PTH/CHEM/SOP/028 (Date of Issue-27.02.2012)	5 to 150 µg/kg	
		Sulphamethoxy Pyridazine		5 to 150 µg/kg	
		Sulphamethoxazole		5 to 150 µg/kg	
		Sulphadoxin		5 to 150 µg/kg	
		Sulphadimethoxin		5 to 150 µg/kg	
		Alpha-BHC		PTH/CHEM/SOP/016/026 (Date of Issue-15.07.2011)	10 to 100 µg/kg
		Beta-BHC			10 to 100 µg/kg
		Gamma-BHC			10 to 100 µg/kg
		Delta-BHC			10 to 100 µg/kg
		Aldrin			10 to 100 µg/kg
	Dieldrin	10 to 100 µg/kg			
	Endrin	10 to 100 µg/kg			
	4,4' DDT	10 to 5000 µg/kg			
	Histamine	PTH/CHEM/SOP/030 (Date of Issue-15.02.2012)	2.5 to 500 mg/kg		
	Allura Red	PTH/CHEM/SOP/048 (Date of Issue-03.12.2012)	5.0 to 200 µg/kg		
	Ethoxyquin	PTH/CHEM/SOP/016/042 (Date of Issue-04.09.2012)	5.0 to 100 µg/kg		
	Pendimethalin	PTH/CHEM/SOP/066-SANCO 12571/2013 (Date of Issue- 04.02.2014)	5.0 to 100 µg/kg		

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	Fish and Fishery Products	Malachite Green	PTH/CHEM/SOP/065 (Date of Issue- 26.09.2012)	0.5 to 4.0 µg/kg
		Leucomalachite Green		0.5 to 4.0 µg/kg
		Crystal Violet		0.5 to 4.0 µg/kg
		Leuco Crystal Violet		0.5 to 4.0 µg/kg
		Arsenic	PTH/CHEM/SOP/023 (Date of Issue-17.10.2012)	0.1 to 5 mg/kg
		Cadmium		0.02 to 5 mg/kg
		Lead		0.1 to 5 mg/kg
		Mercury		0.1 to 5 mg/kg
		Nickel		0.04 to 5 mg/kg
		Chromium		1 to 20 mg/kg
		Tin		2.5 to 400 mg/kg
		Zinc	PTH/CHEM/SOP/012 (Date of Issue-03.11.2007)	0.1 to 10 mg/kg
		Copper		0.1 to 10 mg/kg
		TVBN as N	PTH/CHEM/SOP/006 (Date of Issue-14.07.2009)	5 to 500 mg/100gm
		Moisture	IS 14950-2001, (RA 2009)	0.1 to 50%
Acid Insoluble Ash	IS 14950-2001, (RA 2009)	0.01 to 10%		
Sulphite as SO ₂	AOAC 19 th Edition 2012; 990.28;47.3.43	10 to 200 mg/kg		
Phosphate as P ₂ O ₅	AOAC 19 th Edition 2012, 995.11; 45.1.33	10 to 10,000 mg/kg		
TMA	PTH/CHEM/SOP/061 (Date of Issue-15.04.2013)	5 to 100 mg/100gm		

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2.	Milk & Milk Products	Chloramphenicol	PTH/CHEM/SOP/002 (Date of Issue- 08.12.2006)	0.15 to 0.60 µg/kg
		AOZ	PTH/CHEM/SOP/015 (Date of Issue- 10.10.2007)	0.5 to 5.0 µg/kg
		AMOZ		0.5 to 5.0 µg/kg
		AHD		0.5 to 5.0 µg/kg
		SEM		0.5 to 5.0 µg/kg
		Ronidazole	PTH/CHEM/SOP/024 (Date of Issue- 18.03.2011)	0.5 to 5.0 µg/kg
		Metronidazole		0.5 to 5.0 µg/kg
		Tetracycline & its 4-Epimer	PTH/CHEM/SOP/036 (Date of Issue- 15.05.2012)	10 to 500 µg/kg
		Oxytetracycline & its 4-Epimer		10 to 500 µg/kg
		Chlortetracycline & its 4-Epimer		10 to 500 µg/kg
		Sulphanilamide	PTH/CHEM/SOP/032 (Date of Issue- 08.03.2012)	5 to 150 µg/kg
		Sulphadiazine		5 to 150 µg/kg
		Sulphathiazole		5 to 150 µg/kg
		Sulphamerazine		5 to 150 µg/kg
		Sulphamethazine		5 to 150 µg/kg
Sulphamethizole	5 to 150 µg/kg			
Sulphamethoxy Pyridazine	5 to 150 µg/kg			
Sulphamethoxazole	5 to 150 µg/kg			
Sulphadoxin	5 to 150 µg/kg			
Sulphadimethoxin	5 to 150 µg/kg			
Dihydrostreptomycin including streptomycin	PTH/CHEM/SOP/051 (Date of Issue- 10.12.2012)	100 to 500 µg/kg		
Gentamicin		25 to 500 µg/kg		
Neomycin		250 to 5000 µg/kg		
Spectinomycin		50 to 500 µg/kg		
Kanamycin		25 to 500 µg/kg		

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	Milk & Milk Products	Spiramycin	PTH/CHEM/SOP/038	50 to 500 µg/kg
		Tylosin	(Date of Issue- 21.05.2012)	10 to 100 µg/kg
		Tilmicosin		10 to 100 µg/kg
		Erythromycin		10 to 100 µg/kg
		Thiamphenicol	PTH/CHEM/SOP/050	10 to 100 µg/kg
		Phenylbutazone	(Date of Issue- 05.12.2012)	2.5 to 50 µg/kg
		Trimethoprim	PTH/CHEM/SOP/045	10 to 100 µg/kg
		Enrofloxacin including ciprofloxacin	(Date of Issue- 05.09.2012)	25 to 500 µg/kg
		Doxycycline	PTH/CHEM/SOP/039	2.5 to 40 µg/kg
			(Date of Issue- 15.05.2012)	
	Albendazole	PTH/CHEM/SOP/040	2 to 100 µg/kg	
	Fenbendazole	(Date of Issue- 11.06.2012)	2 to 15 µg/kg	
	Morantel	PTH/CHEM/SOP/040	2 to 50 µg/kg	
	Ivermectin	(Date of Issue- 11.06.2012)	2.5 to 50 µg/kg	
	Total residual antibiotics (as Beta Lactum)	PTH/CHEM/SOP/21/	In-house validation,	Present/Absent
	Penicillin-G, Ampicillin, Amoxicillin, Cefacetrile, Cefalexin, Cefalonium, Cefaperazon, Cefapirin, Ceftiofur, Cloxacillin, Dicloxacillin, Oxacillin, Nafcillin	(Date of Issue- 10.05.2010)		

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	Milk & Milk Products	Aflatoxin M1	PTH/CHEM/SOP/017 (Date of Issue- 23.03.2009)	0.005 to 0.08 µg/kg
		Dichlorovos	PTH/CHEM/SOP/025 (Date of Issue- 14.03.2011)	10.0 to 200 µg/kg
		Parathion Methyl		10.0 to 200 µg/kg
		Malathion		10.0 to 200 µg/kg
		Ethion		10.0 to 200 µg/kg
		Phosalone		10.0 to 200 µg/kg
		Fenthion		10.0 to 200 µg/kg
		Diazinon		10.0 to 200 µg/kg
		Aldrin	PTH/CHEM/SOP/034 (Date of Issue 02.04.2012)	1.0 to 100.0 µg/kg
		Dieldrin		1.0 to 100.0 µg/kg
		Chlordane (cis & trans)		1.0 to 100.0 µg/kg
		Heptachlor		1.0 to 100.0 µg/kg
		Methoxychlor		1.0 to 100.0 µg/kg
		Endosulfan		1.0 to 100.0 µg/kg
		Gamma BHC		1.0 to 100.0 µg/kg
		Heptachlor epoxide		1.0 to 100.0 µg/kg
		Beta endosulfan		1.0 to 100.0 µg/kg
		Endosulfan sulphate		1.0 to 100.0 µg/kg
		Arsenic	PTH/CHEM/SOP/035 (Date of Issue- 03.04.2012)	0.1 to 5 mg/kg
		Cadmium		0.02 to 5 mg/kg
	Lead	0.008 to 5 mg/kg		
	Mercury	0.02 to 5 mg/kg		
	Tin	1 to 500 mg/kg		
	Zinc	0.1 to 15 mg/kg		

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3.	Honey	Chloramphenicol	PTH/CHEM/SOP/022 (Date of Issue- 02.07.2010)	0.15 to 0.60 µg/kg
		AHD	PTH/CHEM/SOP/027 (Date of Issue- 29.11.2011)	0.5 to 5.0 µg/kg
		AMAZ		0.5 to 5.0 µg/kg
		AOZ		0.5 to 5.0 µg/kg
		SEM		0.5 to 5.0 µg/kg
		Ronidazole	PTH/CHEM/SOP/024 (Date of Issue- 18.03.2011)	0.5 to 5.0 µg/kg
		Metronidazole		0.5 to 5.0 µg/kg
		Sulphanilamide	PTH/CHEM/SOP/065, (Date of Issue- 08.03.2012)	5 to 50 µg/kg
		Sulphadiazine		5 to 50 µg/kg
		Sulphathiazole		5 to 50 µg/kg
		Sulphamerazine		5 to 50 µg/kg
		Sulphamethazine		5 to 50 µg/kg
		Sulphamethizole		5 to 50 µg/kg
Sulphamethoxy Pyridazine	5 to 50 µg/kg			
Sulphamethoxazole	5 to 50 µg/kg			
Sulphadoxin	5 to 50 µg/kg			
Sulphadimethoxin	PTH/CHEM/SOP/051 (Date of Issue- 10.12.2012)	5 to 50 µg/kg		
Dihydrostreptomycin including streptomycin		2.5 to 40 µg/kg		
Tetracycline & its 4-Epimer	PTH/CHEM/SOP/041, (Date of Issue- 10.07.2012)	2.5 to 40 µg/kg		
Oxytetracycline & its 4-Epimer		2.5 to 40 µg/kg		
Chlortetracycline & its 4-Epimer		2.5 to 40 µg/kg		
Doxycycline		2.5 to 40 µg/kg		

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	Honey	Tylosin	PTH/CHEM/SOP/038, (Date of Issue- 21.05.2012)	2.5 to 40 µg/kg
		Amitraz	PTH/CHEM/SOP/047, (Date of Issue- 08.10.2012)	50 to 400 µg/kg
		Aldrin and dieldrin as dieldrin	PTH/CHEM/SOP/044 (Date of Issue- 26.09.2012)	1 to 100 µg/kg
		Chlorobenzalate		1 to 100 µg/kg
		DDT 4 4'		1 to 100 µg/kg
		Endosulfan (sum of α & β isomer and endosulfan sulphate expressed as endosulfan)		1 to 100 µg/kg
		BHC (α & β isomer)		1 to 100 µg/kg
		BHC-Gamma (Lindane)		1 to 100 µg/kg
		Vinclozolin		1 to 100 µg/kg
		Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)		1 to 100 µg/kg
		Hexachlorobenzene (HCB)		1 to 100 µg/kg
		Coumaphos	PTH/CHEM/SOP/049 (Date of Issue- 07.11.2012)	1 to 100 µg/kg
		Malathion		1 to 100 µg/kg
		Phosalone	TH/CHEM/SOP/049 (Date of Issue- 07.11.2012)	1 to 100 µg/kg

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	Honey	Cyfluthrin (sum of isomers 1 & 2) Cyhalothrin (sum of isomers) Cypermethrin (sum of isomers)- alphacypermethrin1,2,3,4 Deltamethrin Permethrin (sum of isomers) 1 & 2	PTH/CHEM/SOP/063 (Date of Issue- 07.11.2012)	1 to 50 µg/kg 1 to 50 µg/kg 1 to 50 µg/kg 1 to 50 µg/kg 1 to 50 µg/kg
		Fenvalerate (sum of RR, SS, RS and SR isomers) 1&2		1 to 50 µg/kg
		Carbaryl Carbofuran Propoxeur	PTH/CHEM/SOP/056 (Date of Issue- 10.06.2013)	0.5 to 5.0 mg/kg 25 to 200 mg/kg 5 to 50 µg/kg
		Cadmium Lead	PTH/CHEM/SOP/055 (Date of Issue- 03.12.2012)	0.1 to 5 mg/kg 0.05 to 5 mg/kg
4.	Basmati Rice	Carbendazim (reported with Benomyl) Primiphos-methyl Imidacloprid Triazophos Buprofezin Tricyclazole Thiophanate methyl Isoprothiolane Cyfluthrin	PTH/CHEM/SOP/070 (Date of Issue- 10.03.2014)	5 to 100 µg/kg 5 to 100 µg/kg 1 to 50 µg/kg 1 to 50 µg/kg

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	Basmati Rice	Fonicamid (Sum of Fonicamid and TFNA)	PTH/CHEM/SOP/068 (Date of Issue- 10.03.2014)	1 to 50 µg/kg
		Metconazole		1 to 50 µg/kg
		Prothioconazole		1 to 50 µg/kg
		Tebufenozide		1 to 50 µg/kg
		Bifenthrin		1 to 50 µg/kg
5.	Fruits and Vegetables	Aldrin	PTH/CHEM/SOP/044 (Date of Issue- 09.11.2011)	0.01 to 5 mg/kg
		Dieldrin		0.01 to 5 mg/kg
		4,4'-DDT		0.01 to 5 mg/kg
		Endrin		0.01 to 5 mg/kg
		Alpha-BHC		0.01 to 5 mg/kg
		Beta-BHC		0.01 to 5 mg/kg
		Gamma-BHC		0.01 to 5 mg/kg
	Delta-BHC		0.01 to 5 mg/kg	
6.	Food Grains, Pulses, Cereals & by products (Wheat, Rice, Chana, Moong, Rajma, Atta, Maida, Besan, Barley, Oats, Watana-Black & Green & White, Masoor, rawa, Lapshi, Dal, Urd, Tur, Masoor, Chana, barley flour, Split pulses, corn)	Moisture	IS 1155 - 1968, (RA 2010) IS 1009-1979, (RA 2010) IS 4333 (Part II) 1967, (RA 2012)	1 to 25%
		Total ash	IS 1155 - 1968-, (RA 2010), A.O.A.C. (923.03) 19 th edition 2012; 32.1.05	0.1 to 10%
		Acid insoluble ash	IS 1155 - 1968, (RA 2010)	0.01 to 5%
		Protein	IS 7219-1973	2 to 50 %
		Crude fibre	IS 1155 - 1968, (RA 2010)	1 to 25 %
	Gluten content	IS 1155 - 1968, (RA 2010)	1 to 20%	

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	Food Grains, Pulses, Cereals & by products (Wheat, Rice, Chana, Moong, Rajma, Atta, Maida, Besan, Barley, Oats, Watana-Black & Green & White, Masoor, rawa, Lapshi, Dal, Urd, Tur, Masoor, Chana, barley flour, Split pulses, corn)	Alcoholic acidity	IS 1155 - 1968, (RA 2010) IS 12711 , (RA 2010)	0.05 to 1.0%
		Starch content	IS 4706 (Part II) 1978, (RA 2010)	10 to 80%
		Detection of Kesari Dal	D.G.H.S manual 3 (2005)	Present /Absent
		Carbohydrate	IS 1656- 1997, (RA 2012)	25 to 80%
		Energy	PTH/CHEM/FS/24 (Date of Issue-12.02.2014)	5 to 700 kCal/100 gm
		Damaged / slightly	D.G.H.S manual 3 (2005)	0.1 to 50 %
		Damaged / Discoloured		0.1 to 50%
		Weevilled		0.1 to 50%
		Extraneous matter		0.1 to 50%
		Other edible grain		0.1 to 50%
	Shrivelled / immature		0.1 to 50%	
	Broken		0.1 to 50%	
7.	Bakery & Confectionary Products (Biscuits, Bread, Cakes, Cookies, cookies mix, cake mix, chocolates, nankatai, bread sticks, toast)	Moisture	IS 1011 - 2002 (RA-2009) IS 1163-1992 (RA-2009) IS 12711 to 1989 (RA-2010)	0.1 to 15%
		Fat	IS12711 - 1989 (RA-2010) IS 1163- 1992(RA-2009)	0.5 to 50 %
		Acidity of extracted fat (as oleic acid)	IS 1011 - 1992 (RA-2009) IS12711 - 1989 (RA-2010)	0.05 to 3%
		Ash	IS 1011 - 1992 (RA-2009) IS12711 - 1989 (RA-2010) IS 1163-1992 (RA-2009)	0.1 to 25%

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	Bakery & Confectionary Products (Biscuits, Bread, Cakes, Cookies, cookies mix, cake mix, chocolates, nankatai, bread sticks, toast)	Acid insoluble ash	IS 1011 - 1992 (RA-2009) IS12711 - 1989, (RA-2010) IS1163-1992 (RA-2009)	0.1 to 5%
		Protein	IS 7219-1973 (RA-2010)	0.5 to 25 %
		Carbohydrate	IS 1656- 1997 (RA-2012)	25 to 80%
		Alcoholic acidity	IS 12711 - 1989 (RA-2010)	0.05 to 0.5 %
		Salt	IS 1797-1985 (RA-2009) D.G.H.S. Lab Manual3- 2005	0.1 to 10%
8.	Honey & Honey Based Products	Specific gravity	IS 4941 - 1994 (RA-2012)	1 to 2
		Moisture		13 to 25 %
		Total reducing sugar		40 to 75%
		Ash		0.01 %- 5%
		Acidity (expressed as formic acid)		0.1 to 5%
		Fructose- Glucose ratio		0.2 to 2%
		Fiehes test (qualitative)		Present/ Absent
		Sucrose		1 to 7%
	Hydroxy methyl furfural	A.O.A.C.980.23, 44.4.15	1 to 80 mg/kg	

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9.	Spices & Condiments (Whole- Chilli, Turmeric, Cumin, Coriander, Cloves, Asafoetida, Black paper, Ground-Chilli powder, Turmeric, Cumin, Coriander, Curry, Masala Mix, Gravies, Pickles, Sambhar masala, Pav bhaji masala, chat masala, chole masala, garam masala)	Moisture	IS 1797-1985, (RA 2009) A.O.A.C.986.21, 43.1.04	1 to 50%
Total ash		IS 1797-1985, (RA 2009) AOAC 941.12, 19 th edition 2012, 43.1.05	1 to 15%	
Acid insoluble ash		IS 1797-1985, (RA 2009)	0.1 to 3%	
Water insoluble ash		IS 1797-1985, (RA 2009)	0.1 to 3%	
Crude Fibre		IS 1797-1985, (RA 2009)	2 to 40%	
Volatile oil		IS 1797-1985, (RA 2009), A.O.A.C. (962.17) 19 TH edition (2012) 43.1.14	0.1 to 20 %	
Non-volatile ether extract		IS 1797-1985, (RA 2009)	2 to 30%	
Cold water soluble extract		IS 1797-1985, (RA 2009)	1.5 to 60 %	
Protein		IS 7219-1973, (RA 2009)	1 to 50%	
Curcumin content		IS 10925 to 1984, (RA 2012)	0.1 to 20%	
Presence of Chromate	IS 3576-2010	Present/Absent		
Salt	IS 1797-1985, (RA 2009) D.G.H.S. Lab Manual 10 (2005)	0.1% to 50 %		

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	Spices & Condiments (Whole- Chilli, Turmeric, Cumin, Coriander, Cloves, Asafoetida, Black paper, Ground-Chilli powder, Turmeric, Cumin, Coriander, Curry, Masala Mix, Gravies, Pickles, Sambhar masala, Pav bhaji masala, chat masala, chole masala, garam masala)	Extraneous matter	DGHS Manual 10 (2005)	0.1 to 50 %
		Insect damaged matter		0.1 to 50 %
		Empty and malformed capsules by count (cardamom)		0.1 to 50 %
		Immature and shrivelled capsules		0.1 to 50 %
		Light seed		0.1 to 50 %
		Unripe and marked fruit (Chilli)		0.1 to 50 %
		Broken fruit, seed and fragment		0.1 to 50 %
		Tendrils, mother clove		0.1 to 50 %
		Khokar clove		0.1 to 50 %
		Headless cloves		0.1 to 50 %
		Split fruit (coriander)		0.1 to 50 %
		Damaged discoloured fruit		0.1 to 50 %
		Defective seed (fennel)		0.1 to 50 %
		Edible seed other than fennel seed		0.1 to 50 %
		Light berries (black pepper)		0.1 to 50 %
	Pin head or broken berries		0.1 to 50 %	
	Defective rhizome (turmeric)		0.1 to 50 %	

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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
10.	Fruits and Vegetable products (Fruit Juice, Fruit pulp, Chutney, Sauces, Ketchups, Ready to eat vegetables, Canned fruit & vegetables, Dehydrated, Instant drink powder, Jam, Jellies, pickles, vegetable soup powders, tooty fruity)	Moisture	A.O.A.C. (934.06) 19 th edition (2012)-37.1.10	1 to 90 %
		Total solids	A.O.A.C. (920.151) 19 th edition (2012)-37.1.12	1 to 95%
		Acidity of cut out syrup / Total acidity	IS 2860-1964, (RA 2008) A.O.A.C. (942.15) 19 th edition (2012)-37.1.37	0.1 to 20%
		Sodium chloride (Brine)	IS 2860-1964, (RA 2008)	0.25 to 20%
		pH	IS 2860-1964, (RA 2008)	1.0 to 14.0
		Total ash	IS 13846-2009	0.1 to 25%
		Acid insoluble ash	IS 13846-2009	0.01 to 2%
		Protein	IS 7219-1973, (RA 2010) IS 6287-1985, (RA 2010)	0.5 to 50%
		Fat	IS 6287-1985, (RA 2010)	0.1 to 20%
Salt as Sodium Chloride	IS 1797-1985, (RA 2009) IS 4706 (Part II)-1978, (RA 2010)	0.1 to 25%		

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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
	Starch and starchy products	Protein	IS 4706 (Part II)-1978, (RA 2010)	1 to 60 %
		Crude fibre	IS 4706 (Part II)-1978, (RA 2010)	0.1 to 15%
		pH of aqueous extract	IS 4706 (Part II)-1978, (RA 2010)	1.0 to 14.0
		Alcoholic acidity	IS 4706 (Part II)-1978, (RA 2010)	0.01 to 5%
		Total fat	IS 12711 to 1989, (RA 2010) IS 1163 (RA 2010)	1 to 10%
		Carbohydrate	IS 1656-2002, (RA 2012)	1 to 95%
		Salt	IS 4706 (Part II)-1978, (RA 2010)	0.1 to 25%
13.	Tea, Coffee, cocoa and by products	Moisture	IS 3077-1992, (RA 2009), IS 1164-1986, (RA 2012)	1 to 20%
		Ash	IS 13854-1994, (RA 2009) IS 1164, (RA 2012)	1 to 10 %
		Water soluble ash	IS 3077-1992, (RA 2009)	0.1 to 80%
		Ash insoluble in HCL	IS 3077-1992, (RA 2009) IS 1164-1986, (RA 2012)	0.01 to 5%
		Aqueous Extract / Water soluble matter	IS 3077-1992, (RA 2009)	5 to 35 %

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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
	Tea, Coffee, cocoa and by products	Alkalinity of soluble ash	IS 3077-1992, (RA 2009), IS 1164-1986, (RA 2012)	1 to 10 %
		Crude Fibre	IS 1155 to 2009 IS 1164-1986, (RA 2012)	1 to 20 %
		Petroleum ether extract	IS 3077-1992, (RA 2009)	1 to 10 %
		Cocoa butter	IS 1164-1986, (RA 2012)	5 to 25 %
		Caffeine	PTH/CHEM/FS/SOP/22 (Date of Issue-15.07.2013)	25 to 500 mg/kg
14.	Snacks, Convenience Products (Namkeen-farsan, Instant mix like idli, Dosa, Dhokala, Jalebi, Gulabjam, Breakfast cereals, Chapati, Paratha, Khakara, Bhajani pith, Thalipith bhajani, Cheese balls, chikki, pickles)	Moisture	IS 1155 to 1968 (RA-2010) IS 4333-(Part 2),1967, IS 15271 to 2003, (RA 2009)	0.1 to 80 %
		Ash	IS 15271 to 2003, (RA 2009)	0.1 to 25 %
		Acid Insoluble ash	IS 15271 to 2003, (RA 2009)	0.01 to 5%
		Fat	IS 15271 to 2003, (RA 2009)	0.1 to 50%
		Protein	IS 7219- 1973, (RA 2010)	0.1 to 50%
		Carbohydrate	IS 1656-2007, (RA 2012)	5 to 80%
		Acidity / Acidity of extracted fat	D.G.H.S. Manual 2005, IS 15271 to 2003, (RA 2009) IS 2860 1964, (RA 2008)	0.01 to 50%
		Salt	IS 4706, Part II-1978, (RA 2010) DGHS manual 3- 2005	0.1 to 25%

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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
15.	Oil Seeds and By Products	Damaged seeds	IS 3579-1966, (RA 2011)	0.1 to 25%
		Slightly damaged seeds	IS 3579-1966, (RA 2011)	0.1 to 25%
		Shrivelled immature dark seeds	IS 3579-1966, (RA 2011)	0.1 to 25%
		Split and broken kernels	IS 3579-1966, (RA 2011)	0.1 to 50%
		Nooks	IS 3579-1966, (RA 2011)	0.1 to 50%
		Impurities	IS 3579-1966, (RA 2011)	0.1 to 50%
		Moisture	IS 3579-1966, (RA 2011)	0.1 to 15 %
		Oil content	IS 3579-1966, (RA 2011)	0.1 to 75 %
		Acid value of extracted oil	IS 3579-1966, (RA 2011)	0.1 to 5.0%
16.	Nuts & Nuts products	Moisture	AOAC,925.40 19 th Edition 2012 40.1.04	1 to 25%
		Fat	AOAC 948.22 19 th Edition 2012 40.1.05	1 to 75%
		Protein	AOAC 950.48 19 th Edition 2012 40.1.06	0.1 to 30%
		Carbohydrate	IS 1656-1997	5 to 80%

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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
	Nuts & Nuts products	Acidity / Acidity of extracted fat	D.G.H.S. Manual 2005, IS 2860 2007, (RA 2012)	0.01 to 25%
		Salt	AOAC 950.52 19 th Edition 2012 40.1.11	0.1 to 25%
		Ash	AOAC 950.49	0.1 to 15%
17.	Sugar and confectionary products	Moisture	IS 6287-1985, (RA 2010)	0.5 to 30%
		Ash	IS 6287-1985, (RA 2010)	0.1 to 10%
		Acid insoluble ash	IS 6287-1985, (RA 2010)	0.01 to 5%
		Fat	IS 6287-1985, (RA 2010)	0.1 to 50%
		Protein	IS 6287-1985, (RA 2010)	0.5 to 20%
		Sucrose	IS 6287-1985, (RA 2010)	1.0 to 90 %
		Reducing sugar	IS 6287 1985, (RA 2010)	0.5 to 70%
		Lactose	IS 6287 1985, (RA 2010)	0.5 to 20%
		Brix (total soluble solids)	IS 13815 to 1993, (RA 2009)	5 to 80 %
		Sulphated ash	IS 6287 1985, (RA 2010)	0.1 to 10%

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18.	Non Alcoholic, Carbonated Beverages & Soft drinks	pH	PTH/CHEM/SOP/007 (Date of Issue- 09.01.2006)	1 to 14
		Acidity	IS 13844-2003, (RA 2008)	0.1 to 10 %
		Caffeine	PTH/CHEM/SOP/22 Date of issue 16.07.2013	25 to 500 mg/kg
19.	Alcoholic Beverages	pH	IS 3865 - 2001, (RA 2007)	1 to 14
		Ethyl alcohol content	IS 3865-2001, (RA 2007) IS7585-1995, (RA 2007) IS 3752-2005, (RA 2009)	1 to 100 %
		Determination of methyl alcohol	IS 3752-2005, (RA 2009)	20 to 200 mg/L
		Total acids as tartaric acid	IS 3752-2005, (RA 2007)	0.1 to 10 g/L
		Volatile acids as acetic acid	IS 3752-2005, (RA 2009)	0.1 to 5 g/L
		Residue on evaporation	IS 3752-2005, (RA 2009)	0.1 to 10%
		Extracts	IS 7585 - 1995, (RA 2007)	1 to 100 g/L
20.	Nut & Nut products, Grains, Cereal and Cereal products, Spices, Oilseeds	Total Aflatoxins (B1, B2, G1 & G2)	PTH/CHEM/SOP/033 (Date of Issue- 19.03.2012)	1 to 1000 µg/kg

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II. WATER

1.	Potable Water	Colour (Hazen units)	IS 3025 (Part 4)- 1983, (RA- 2012)	1 to 70 Hazen units
		Odour	IS 3025 (Part 5)-1983, (RA 2012)	Agreeable/Disagreeable
		pH at 25 ⁰ C	IS 3025 to (Part 11)- 1983 (RA- 2012)	1 to 14
		Total Solids	IS 3025 (Part 15)- 1984, (RA 2009)	10 to 10000 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part 21)- 2009	10 to 1000 mg/L
		Sulphate as SO ₄	IS 3025 (Part 24) 1984, (RA 2009)	10 to 200 mg/L
		Calcium as Ca	IS 3025 (Part 40) 1991, (RA 2009)	1 to 1000 mg/L
		Magnesium as Mg	IS 3025 (Part 46) 1994, (RA 2009)	1 to 1000 mg/l
		Fluoride as F	IS 3025 (Part 63)- 2008	1 to 5 mg/L
		Chloride as Cl	IS 3025 (Part 32) 1998, (RA 2009)	5 to 1000 mg/L
		Manganese as Mn	EPA 200.8- 1994	0.1 to 1 mg/L
		Copper as Cu		0.1 to 1 mg/L
		Lead as Pb		0.05 to 1 mg/L
		Chromium as Cr		0.02 to 1 mg/L
		Zinc as Zn		1 to 20 mg/L
		Arsenic as As		0.1 to 1 mg/L
		Mercury as Hg		0.0006 to 1 mg/L
		Cadmium as Cd		0.002 to 1 mg/L
		Nickel as Ni		0.005 to 1 mg/L

