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I.	Water				
1.	Packaged drinking water, Packaged natural mineral water, Raw water, Source Water, Drinking water Water for food Processing Industry, Water and Ice as	Colour	IS 3025 : 1983 (P-4) (RA 2006 Amnd 1	5) 1 to 50	Hazen units
		Odour	IS 3025 : 1983 (P-5) (RA 2006	i) Organo	leptic
		Taste	IS 3025 : 1984 (P-8) (RA 2006	i) Organo	leptic
		Turbidity	IS 3025 : 1984 (P-10) (RA 2000	6) 0.1 to 1	00 NTU
		Specific Conductance at 25°C	2510 APHA 22nd Ed.	0.1 μm mmhos	hos/cm to 100 /cm
	per EEC directive 98/83/EC	TDS	IS 3025 : 1984 (P-16) (RA 2006 Amnd 1	,	0 mg/l 500 mg/l
		pH	IS 3025 : 1983 (P-11) (RA 2000	6) 1 to 14	
		Barium	IS 13428 F : 2005, Amnd 4 IS 15302 : 2003	0.5 to 5	i0 mg/l
		Copper	IS 3025 : 1992 (P-42) Amnd 1 IS 3025 : 2004 (P-2) (RA 2003) AAS (3113 APHA 22 nd Ed.)		20 mg/l
		Iron	IS 3025 : 2003 (P-53) IS 3025 : 2004 (P-2) (RA 2003) AAS (3113 APHA 22 nd Ed.)		1.0 mg/l

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Ν	Manganese	IS 3025 : 2006 (P-59) IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed.)	0.01 to	1.0 mg/l		
C	Chloramines (as Cl ₂)	IS 3025 (P-26) APHA 22 nd Ed. 4500-CL G	0.1 mg/	l to 20 mg/l		
Ν	Aolybdenum	IS 3025 (P-2)	0.1 mg/	l to 20 mg/l		
A	Ammonia (as total ammonica-N)	IS 3025 (P-34)	0.1 to 1 10 mg/l	0 mg/l to 500 mg/l		
Ν	Vitrate	IS 3025 : 1988 (P-34) (RA 20		mg/l to 500 mg/l		
Ν	Vitrite	IS 3025 : 1988 (P-34) (RA 20		10 mg/l to 500 mg/l		
F	Fluoride	IS 3025 : 2008 (P-60)	0.1 mg/	l to 5 mg/l		
Z	Cinc	IS 3025 : 1994 (P-49) (RA 20 Amnd 1 IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	03) 0.01 mg	z/l to 20 mg/l		
S	Silver	IS 13428 : 2005 Annex. J AAS (3113 APHA 22 nd Ed) IS 3025 (P-2) : 2004	0.005 m	ng/l to 20 mg/l		
Α	Aluminium	IS 3025 : 2003 (P-55) IS 3025 : 2004 (P-2)		z/l to 0.3 mg/l l to 5 mg/l		

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		Chloride	IS 3025 : 1988 (P-32) (RA 2003)	1 to 500 mg/l 500 mg/l to 1000 mg/l
		Selenium	IS 3025 : 2003 (P-56) IS 15303 : 2003 IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	0.005 mg/l to 5 mg/l
		Sulphate	IS 3025 : 1986 (P-24) (RA 2003) 1st Rev.	10 to 40 mg/l 40 mg/l to 500 mg/l
		Alkalinity	IS 3025 : 1986 (P-23) (RA 2003) 1st Rev. Amtd. 2	1 to 500 mg/l 500 mg/l to 1000 mg/l
		Calcium	IS 3025 : 1991 (P-40) Amnd 1 IS 3025 : 2004 (P-2) (RA 2003)	1 to 500 mg/l 500 mg/l to 1000 mg/l
		Magnesium	IS 3025 : 1994 (P-46) Amnd 2 IS 3025 : 2004 (P-2) (RA 2003) 1st Rev.	1 to 500 mg/l 500 mg/l to 1000 mg/l
		Sodium	IS 3025 : 1993 (P-45) (RA 2003) 1st Rev. Amnd 1 IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	1 to 100 mg/l 100 to 1000 mg/l
		Residual Free Chlorine	IS 3025 : 1986 (P-26) (RA 2003) 1st Rev. Amnd 1	0.1 mg/l to 20 mg/l
		Phenolic compounds	Cl. 6 of IS 3025 : 1992 (P-43) (RA 2003) 1st Rev. Amnd 2	0.001 mg/l to 5 mg/l

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	Anionic Surface active agents	IS 13428 - K : 2005	0.01 to 10 mg/l	10 mg/l to 50 mg/l
	Sulphide	IS 3025 : 1986 (P-29) (RA 2003)	0.02 to 10 mg/l	10 mg/l to 50 mg/l
	Mineral Oil	IS 3025 : 1991 (P-39) (RA 2003) Amnd 2	0.01 mg	g/l to 10 mg/l
	Antimony	Annex. G of IS 13428 : 2005 IS 15303 : 2003 IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	0.002 to	o 10 mg/l
	Borates	IS 13428 - H : 2005 IS 3025 : 2004 (P-2)	0.010 to	o 10 mg/l
	Mercury	IS 3025 : 1994 (P-48) (RA 2003) Amnd 1 IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	0.0005	to 10 mg/l
	Cadmium	IS 3025 : 1992 (P-41) (RA 2003) 1st Rev IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	0.02 to	10 mg/l
	Arsenic	IS 3025 : 1988 (P-37) (RA 2003) 1st Rev, IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed)	0.001 to	o 10 mg/l

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	Cyanide	Cl.2 of IS 3025 : 1986 (P-27) Amnd 1 APHA 4500 22 nd Ed.	0.02 to	10 mg/l		
	Lead	IS 3025 : 1994 (P-47) (RA 2003) Amnd 2 1st Rev. IS 3025 : 2004 (P-2) AAS (3113 APHA 22 nd Ed.)	0.01 to	10 mg/l		
	Chromium	IS 13428 - J : 2005 AAS (3113 APHA 22 nd Ed.) IS 3025 : 2004 (P-2)	0.01 to	10 mg/l		
	Nickel	IS 13428 - L : 2005 AAS (3113 APHA 22 nd Ed.) IS 3025 : 2004 (P-2)	0.01 to	10 mg/l		
	Bromate	APHA 22 nd Ed. RAL/CHE-WATER/36 Issue no. 3, Jan 2014	0.01 to	10 mg/l		
	Oxidisable matter	APHA 22 nd Ed. Annex-A of IS 1070 : 1992	0.075 t	o 10 mg/l		
	Ammonia (Nitrogen)	IS 3025 : 1988 (P-34) (RA 2005) 0.005 t	o 10 mg/l		
	Conductivity	IS 3025 (P-14) : 1984	0.1 µS	to 100 mmhos/cm		
	Acrylamide	APHA 22 nd Ed., Sec.8032 A	0.1 μg/	'l to 10 mg/l		

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	Poly Chlorinated Biphenyls	Annexure-M of IS 13428:20 AOAC 974.21 19 th ED. 201	05, 0.01 μ _ξ 2	g/l to 10 mg/l			
	Poly Aromatic Hydrocarbons	APHA 22 nd Ed. 6440	0.01 µş	g/l to 10 mg/l			
	PESTICIDE RESIDUE						
	DDT (0,p & p,p isomers of DDT, DDE and DDD)	USEPA 508/ 525.2 RAL/CHE-WATER/23 Issue no. 5, Jan 2014		.01 μg/l g/l to 1000 μg/l			
	Gamma-HCH (Lindane)	USEPA 508/ 525.2 RAL/CHE-WATER/23 Issue no. 5, Jan 2014	-do-				
	Alpha, beta, delta HCH	USEPA 508/ 525.2 RAL/CHE-WATER/23 Issue no. 5, Jan 2014	-do-				
	Endosulphan (Alpha, Beta, Endosulphan sulphate)	USEPA 508 RAL/CHE-WATER/23 Issue no. 5, Jan 2014	-do-				
	Monocrotophos	USEPA 8141A/525.2 RAL/CHE-WATER/24 Issue no. 5, Jan 2014	-do-				
	Ethion	USEPA 8141A/525.2 RAL/CHE-WATER/24 Issue no. 5, Jan 2014	-do-				

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	Chlorpyrifos	USEPA 8141A/525.2 RAL/CHE-WATER/24 Issue no. 5, Jan 2014		.01 μg/l t/l to 1000 μg/l		
	Phorate (Phorate and its oxygen analogue i.e phorate sulfoxide and phorate sulphone)	USEPA 8141A/525.2 RAL/CHE-WATER/24,25 Issue no. 5, Jan 2014	-do-			
	2, 4-D	USEPA 515.1 USEPA 555 (Modified) RAL/CHE-WATER/27 Issue no. 5, Jan 2014	-do-			
	Butachlor	USEPA 8141A/525.2 RAL/CHE-WATER/24 Issue no. 5, Jan 2014	-do-			
	Isoproturon	USEPA 532 (Modified) RAL/CHE-WATER/26 Issue no. 5, Jan 2014	-do-			
	Alachlor	USEPA 8141A/525.2 RAL/CHE-WATER/23 Issue no. 5, Jan 2014	-do-			
	Atrazine	USEPA 525.2 RAL/CHE-WATER/24 Issue no. 5, Jan 2014	-do-			

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	Packaged Drinking water and Packaged Natural Mineral	Methyl Parathion (Methyl Parathion and its oxygen analogue i.e methylparaoxon)	USEPA 8141A/525.2 RAL/CHE-WATER/24 Issue no. 5, Jan 2014		0.01 μg/l g/l to 1000 μg/l	
	Water, Raw water, Source water, Drinking water, Water for	Malathion (Malathion and its oxygen analogue i.e Malaoxon)	USEPA 8141A/525.2 RAL/CHE-WATER/24,25 Issue no. 5, Jan 2014	-do-		
	food processing industry	Aldrin and Dieldrin	USEPA 525.2 AOAC 990.06 2012 RAL/CHE-WATER/23 Issue no. 5, Jan 2014	-do-		
		Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomers (o,p, p,p, isomers of DDT, DDE, DDD), Diclofluanid, Dicofol, Dieldrin, Endrin, Endosulphan, Lindane, BCH & its isomers (Alpha, Beta Delta HCH), Alpha Endosulphan Beta Endosulphan, Endosulphan sulphate, Heptachlor, Heptachlor Epoxide	RAL/CHE-PR/7 Issue no. 5, Sept 2012 APHA 6630B 22 nd Ed. EPA 3510 C/8010A RAL/CHE-PR/18 Issue no. 1, Feb 2012		0.01 mg/kg g/kg to 10 mg/kg	
		Organophosphorus pesticides Acephate, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Etrimphos, Edifenphos, Fenchlorphos, Fenitrothion, Fenthion,				

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	Fenthion sulphone and sulphoxide, Malathion, Malaoxan, Monocrotophos, Omethoate, Oxydemeton-methyl, Demeton-S- Methylsulfone, Parathion Ethyl, Parathion Methyl, Paraxone methyl, Profenophos, Phorate, Phorate sulphone, phorate sulphoxide, Phosalone, Quinalphos, Triazophos Synthetic Pyrethroids Cyfluthrin (all isomers), Lambda Cyhalothrin, Cypermethrin (all isomers), Deltamethrin,Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers) Carbamates Carbaryl, Carbofuran, Indoxacarb, Iprovalicarb, Methomyl, Prridaben, Thiodicarb, Bendiocarb Traizoles Bitertanol, Flusilazole, Hexaconazole, Myclobutanil, Penconazole, Paclobutrazole, Propiconazole, Tebuconazole, Thiabendazole Imidazoles – Fenamidone Acylamino Acid Fungicides Propanil Nicotinoids - Acetamiprid, Thiamethoxam	RAL/CHE-PR/7 Issue no. 5, Sept 2012 APHA 6630B 22 nd Ed. EPA 3510 C/8010A RAL/CHE-PR/18 Issue no. 1, Feb 2012		.01 mg/kg g/kg to 10 mg/kg			

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II.	FOODS & AGRICU	JLTURAL PRODUCTS				
1.	Animal Feeds & Feed Stuffs (Animal health supplement or Feed, Mineral mix, Poultry feed, Probiotic cultures)	Moisture	IS 7874 : 1975 (RA 2004) Amtd. 2, DGHS Lab Manual-		to 40%	
		рН	By pH Meter, DGHS Lab Manual-5	1 to 14		
		Ash	IS 7874 : 1975 (RA 2004) Amtd. 2, DGHS Lab Manual-		to 40%	
		Acid Insoluble Ash	IS 7874 : 1975 (RA 2004) Amtd. 2, DGHS Lab Manual-	0.01 to	0 40%	
		Crude Fat	IS 7874 : 1975 (RA 2004) Amtd. 2, IS 6492, DGHS Lab Manual-3	0.1% t	o 20%	
		Crude Protein/Nitrogen	IS 7874 : 1975 (RA 2004) Amtd. 2, DGHS Lab Manual- IS 5983 (P-1)	0.5% t	0 60%	
		Crude Fibre	IS 7874 : 1975 (RA 2004) Amtd. 2, IS 6865 : 2000 DGHS Lab Manual-3	0.1% t	0 25%	
		Energy Value	RAL/CHE-FOOD/131	10 to 9	00 Kcal /100g	
		Carbohydrates	IS 1656 : 2007 Amnd 2 By calculation	0.5 to 8	80%	

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Animal Feeds & Feed Stuffs (Animal health supplement or	Sodium	IS 15121 : 2002, DGHS Lab Manual-9, AAS/ICP, AOAC 966.16 19 th Ed., IS 7874 : 197 (RA 2004) Amtd. 2		00 mg/kg			
Feed, Mineral mix, Poultry feed, Probiotic cultures)	Potassium	IS 15121 : 2002, DGHS Lab Manual-9 AAS/ICP, AOAC 929.05,929.06 19 th Ed., IS 7874 : 1975 (RA 2004) Amtd. 2	5 to 100	00 mg/kg			
	Magnesium	IS 15121 : 2002, DGHS Lab Manual-9 AAS/ICP, AOAC 931.09 19 th Ed., IS 7874 : 197 (RA 2004) Amtd. 2		00 mg/kg			
	Calcium	IS 15121 : 2002, DGHS Lab Manual-9 AAS/ICP, AOAC 929.07 19 th Ed., IS 7874 : 197 (RA 2004) Amtd. 2		00 mg/kg			
	Salt as NaCl	IS 7874 : 1975 (RA 2004) Amtd. 2	0.01% 1	to 20%			
	Allyl Isothiocynate	GAFTA 12.0-2003	0.1 to 1	%			
	Total Phosphates as P ₂ O ₅ / Phosphorus	AOAC 995.11 19 th Ed., IS 7874 : 1975 (RA 2004) Amtd. 2, Pearson 9 th Ed	0.025 to Phosph	o 1 g/100g as orus			
	Urea Nitrogen	IS 7874 : 1975 (RA 2004) Amtd. 2, IS 13399 Amtd 1	0.1% to	o 60%			

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2.	Snacks, Instant Mixes and Convenience Products, Ready to eat products, Farsan, Traditional sweets and sweet meats	Moisture	AOAC 19 th Edn. 925.09, 920.151, IS 2234:1989 Amnd IS 12220:1987, IS 12566:198 Amtd 1, IS 13264:1991 Amtd IS 13265:1991 Amtd.1, IS 13267:1991, IS 13354:199 DGHS Lab Manual-3	9 1,	o 98%		
		Ash	AOAC 19 th Edn. 940.26, IS 2234:1989 Amnd. 1, IS 12220:1987, IS 12566:1989 Amtd. 1, IS 13264:1991 Amtd.1, IS 13265:1991 Amtd.1, IS 13267:1991 IS 13354:1992 DGHS Lab Manual-3	0.01% t 2,	io 40%		
		Acid insoluble ash	AOAC 19 th Edn. 940.26, IS: 3880-1976 Amnd 1, IS 2234:1989 AMND 1, IS 12220:1987, IS 12566:198 AMTD 1, IS 13264:1991 AMTD.1, IS 13265:1991 AMTD.1,IS 13267:1991 IS 13354:1992, DGHS Lab Manual-3	0.01% t	xo 40%		
		рН	DGHS Lab Manual-5	1 to 14			
		Brix	By Refractometer, DGHS Lat Manual-5	o 0.5% to	80%		

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]	Protein	AOAC 19 th Edn.920.152, IS 2234:1989 AMND 1, DGHS Lab Manual-3, IS 12220:1987, IS 12566:1989 AMTD 1, IS 13264:1991 AMTD.1, IS 13265:1991 AMTD.1, IS 13267:1991 IS 13354: 199	0.5% to	60%
J	Fat content	IS 12220:1987, IS 12566:19 AMTD 1, IS 13264:1991 AMTD.1, IS 13265:1991 AMTD.1, IS 13267:1991 IS 13354: 1992, AOAC 19 th 920.115, DGHS Lab Manua	Ed	60%
	Total Sugar/ Reducing sugar	AOAC, 19 th Edn. 923.09, DG Lab Manual-4	HS 0.5% to	80%
	Carbohydrates	IS 1656 : 2007 Amnd 2, By calculation IS 2234 : 1989 RA 2005 Am	0.5 to 9 nd 1	0%
]	Energy Value	RAL/CHE-FOOD/131	10 to 90	00 Kcal/100g
	Added Starch	AOAC 19 th Edn. 925.38, DGHS Lab Manual-1	Present	/Absent
2	Sodium	IS : 15121 - 2002 & AAS/IC AOAC 966.16 19 th ED., DGHS Lab Manual 9	P, 1 to 100	00 mg/kg

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P	otassium	IS 15121 - 2002 & AAS/IC AOAC 929.05,929.06 19 th DGHS Lab Manual-9	,	000 mg/kg
Ν	lagnesium	IS : 15121 - 2002 & AAS/I AOAC 931.09 19 th Ed., DGHS Lab Manual-9	CP, 1 to 10	000 mg/kg
C	alcium	IS 15121 : 2002 & AAS/IC AOAC 929.07 19 th Ed., DGHS Lab Manual 9	P, 1 to 10	000 mg/kg
v	'itamin C	AOAC 19 th Ed. 967.21 DGHS Lab Manual-5 IS 5838 : 1970	2 mg/1 mg/10	00g to 1000 0g
В	enzoic acid	IS 12014:1986 (P- I) RA 20 AOAC 960.38, AOAC 963 DGHS Lab Manual-8, IS 3501 : 1966 Amtd.1		g to 2500 mg/kg
S	alt as NaCl	AOAC 19 th Ed. 935.47, DGHS Lab Manual-6, DGHS Lab Manual-1, IS 2860:1964 Amtd.1	0.1% t	o 20%
А	cidity as acetic acid	IS 2860:1964 RA 2001 Am DGHS Lab Manual-5	nd 1 0.1% t	o 10%
D	brained weight	DGHS Lab Manual-5, IS 2860 : 1964 Amtd.1	0.1 to 2	20 kg

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		Water activity	RAL/CHE-FOOD/252	0.01 to	1	
		Sulphur dioxide	Pearson 9 th Ed, DGHS Lab Manual-5, AOAC 19 th Ed. 2012 990.28	10 mg/	kg to 2000 mg/kg	
		Total Phosphates as P ₂ O ₅	AOAC 995.11 19 th Ed., RAL/CHE-FOOD/183	0.025 te Phosph	o 1 g/100g as orus	
		Added colour	DGHS Lab Manual-8	5 mg/kg	g to 500 mg/kg	
3.	Egg & Poultry	рН	DGHS Lab manual-5	1 to 14		
	products, Meat & Meat Products Raw, Frozen, Canned and	Moisture/Total solids	AOAC 19 th Ed. 925.30/925.29 952.08, IS:4723 : 1978 Amnd. DGHS Lab Manual-6		to 40%	
	processed, Fish & Fish Products & other marine products	Total ash	AOAC 938.08, 920.153 DGHS Lab Manual-6	0.01% to 40%		
	Raw, Frozen, Canned and processed	Acid Insoluble Ash	AOAC 938.08, 920.153, DGHS Lab Manual-6	0.01 to	0.2%	
	processeu	Fat	AOAC 19 th Edn.925.32, 948.15 991.36, 948.16 DGHS Lab Manual-6, IS 5960 IS 4723 : 1978 AMND 2		0 60%	
		Nitrogen/Protein	AOAC 19 th Edn.984.13 IS 7219 DGHS Lab Manual-6	0.5% t	0 60%	

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		Sodium	IS 15121 - 2002 & AAS/ICP AOAC 966.16 19 th ED., DGHS Lab Manual-9	, 1 to 100	00 mg/kg
		Potassium	IS : 15121 - 2002 & AAS/ICF AOAC 929.05,929.06 19 th EE DGHS Lab Manual-9		00 mg/kg
		Magnesium	IS 15121 - 2002 & AS/ICP, AOAC 931.09 19 th Ed., DGH Lab Manual-9		00 mg/kg
		Calcium	IS : 15121 - 2002 & AS/ICP, AOAC 929.07 19 th ED., DGH Lab Manual-9		00 mg/kg
		Salt as Sodium chloride	AOAC-19THEd. 935.47, 937 A&B, DGHS Lab Manual-6	.09 0.1% to	20%
		Total Volatile Base Nitrogen (TVBN)	Pearson's 9 th Ed., DGHS Lab Manual-6	5 to 200	0 mg/100g
		Trimethylamine (TMA)	AOAC 971.14 19 th Ed., Pears 9 th Ed., DGHS Lab manual-6	on's 5 to 200	0 mg/100g
		Total Phosphates as P ₂ O ₅	AOAC 995.11 19 th Ed., Pearson 9 th Ed	0.025 to Phosphe	o 1 g/100g as orus
		Acidity of brine	DGHS Lab Manual-6	0.1% to	5 %
		Indole	AOAC 948.17 19 th Ed.	0.5 to 1	00 mg/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
		Sulphite as SO ₃	AOAC 990.28 19 th Ed., Kit method(E-Merck)	10 to 10	000 mg/kg	
		Histamine	LC-MS-MS, RAL/Antibiotics/0	07 1 to 20	0 mg/100 g	
		Water activity	RAL/CHE-FOOD/252	0.1 to 1		
		Sulphur dioxide	Pearson 9 th Ed, DGHS Lab Manual-6, AOAC 19 th Ed. 2012 990.28	10 mg/l	cg to 2000 mg/kg	
		Nitrate	AOAC 993.03 19 th Ed., DGHS Lab Manual-6	25 to 10	000 mg/kg	
		Nitrite	AOAC 973.31 19 th Ed., DGHS Lab Manual-6	1 to 10	00 mg/kg	
		Peroxidase test	DGHS Lab Manual-5	Positive	e/Negative	
4.	Nut and Nut products, Dry	Moisture	AOAC 19 th Edn.925.40, IS 3579:1966 Amtd 1	,		
	fruits, Oilseeds	Acid Insoluble Ash	IS 4684:1975 Amnd 2, DGHS Lab Manual-3	0.01%	to 40%	
		Ash	AOAC 19 th Edn.950.49, DGHS Lab Manual-3	0.01%	to 40%	
		Fat/Oil content	AOAC 19th Ed. 2012 948.22, IS 3579:1966 Amtd.1, DGHS Lab Manual-3	0.1% to	60%	

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Nut and Nut products, Dry	Protein	AOAC 19THEdn.950.48, DGHS Lab Manual-3	0.5% to	9 30%		
fruits, Oilseeds	Crude Fibre	DGHS Lab Manual-3, AOAC 19 th Ed.935.53,	0.2% to	0 25%		
	Free Fatty Acids/ Rancidity/ Acidity of extracted fat/Rancidity	IS 548 (P-I) : 1964 Amnd 5, DGHS Lab Manual-3, IS 4684:1975 Amtd.2	0.01% t	to 30%		
	Carbohydrate	IS 1656 : 2007 Amnd. 2, By calculation	0.5 to 8	0%		
	Energy Value	RAL/CHE-FOOD/131	10 to 90	00 Kcal/100g		
	Sodium	IS 15121:2002 & AAS/ICP, AOAC 966.16 19 th Ed., DGHS Lab Manual-9	1 to 100	00 mg/kg		
	Potassium	IS 15121 - 2002 & AAS/ICP AOAC 929.05,929.06 19 th EI DGHS Lab Manual-9		00 mg/kg		
	Magnesium	IS 15121 - 2002 & AAS/ICP AOAC 931.09 19 th Ed., DGHS Lab Manual-9	, 1 to 100	00 mg/kg		
	Calcium	IS : 15121 - 2002 & AAS/IC AOAC 929.07 19 th Ed., DGH Lab Manual-9		00 mg/kg		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
		Rancidity as peroxide value	IS 4684 : 1975 RA 2000 Amnd 2, AOAC 19 th Ed. 2012 940.28, DGHS Lab Manual-3	0.1% to	0 10%		
		Physical tests (insect infestation, broken, damaged/discoloured, shriveled, extraneous matter, stalks, pieces of shells, sugared raisins, Rhodent hair, excreta, Mould affected)	Visual examination IS 3579 -1966 RA 2006 Amnd AOAC 19 th Ed. 2012 935.28, IS 4333:1996 (P-1)	0.1% to 1	o 50%		
		Sugar	AOAC, 19 th Ed. 923.09, 925.35 925.36, DGHS Lab Manual-3	5, 0.5% to	0 80%		
5.	Fruits, Vegetables and its products	Moisture/Total solids	AOAC 19 th Ed. 920.151, DGHS MANUAL-5	0.01%	to 98%		
	Fresh, Raw, dried frozen, processed, Thermally processed, bottled	Acidity/Acidity of cut-out syrup	IS 2860:1964 RA 2001 Amnd 1 DGHS Lab Manual-5 AOAC 19th Ed. 2012 942.15	0.1% to	0 10%		
	canned, dehydrated powders	Ash	AOAC 19 th Edn. 940.26, DGHS Lab Manual-5, IS:3880:1976, Amtd. 1, IS 4624:1978 AMTD.1, IS 3500:1966 AMTD.1	0.01%	to 40%		
		Acid insoluble ash	AOAC 19 th Ed. 940.26 / IS: 3880-1976 AMND 1, DGHS Lab Manual-5, IS 3500:1966 AMTD.1, IS 4624:1978 AMTD.1	0.01%	to 40%		

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	Total soluble Solids/Brix	DGHS Lab Manual-5, AOAC 19th Ed. 2012 932.12, IS 2860 : 1964 RA 2001, Amnd. 1	0.01%	to 80%
	Total insoluble solids	AOAC 19 th Edn. 920.151 DGHS Lab Manual-5	0.01%	to 80%
	pH	DGHS Lab Manual-5	1 to 14	
	Protein	AOAC 19 th Edn.920.152	0.5% to	o 60%
	Crude Fibre	IS : 2234:1989 RA2005 AMN 1, DGHS Lab Manual-3, AOAC 19 th Edn.935.53	D 0.2% to	> 25%
	Carbohydrates	IS 1656:2007 Amnd 2, By calculation	0.5 to 8	0%
	Energy Value	RAL/CHE-FOOD/131	10 to 90	00 Kcal/100g
	Sugar	AOAC, 19 th Edn. 923.09, 925. 925.36, DGHS Lab Manual-5	35, 0.5% to	0 80%
	Added Starch	AOAC 19 th Edn. 925.38, DGH Lab Manual-5 & 3	IS Present	/Absent
	Sodium	IS 15121 : 2002 & AAS/ICP, AOAC 19 th ED., DGHS Lab Manual-9	1 to 100	00 mg/kg

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Pc	otassium	IS 15121 : 2002 & AAS/IC AOAC 19 th ED., DGHS Lab Manual-9	Р, З	1 to 100	0 mg/kg
М	agnesium	IS 15121 : 2002 & AAS/IC AOAC 19 th ED., DGHS Lab Manual-9	P, 1	1 to 100	0 mg/kg
Ca	ılcium	IS 15121 : 2002 & AAS/IC AOAC 19 th ED., DGHS Lab Manual-9	P, 1	1 to 100	0 mg/kg
Vi	tamin C	AOAC-19 th Ed 967.21, DGHS Lab Manual-5		2 mg/10 1000 mg	0gm to t/100 gm
Be	enzoic Acid	IS 12014 (P-I) : 1986 RA2 AOAC 19 th Ed. 2012 963.1 DGHS Lab Manual-8		5 mg/kg	to 2500 mg/kg
Sa	lt	AOAC-19 th Ed. 935.47 DGHS Lab Manual-5	(0.1% to	20%
Dr	ained weight	IS 12220:1987 RA 1999, AOAC 19 th Ed. 2012 953.1 DGHS Lab Manual-5, IS 2860 : 1964 RA 2001, Amnd 1	(0.1 to 5	kg
Vo	platile acidity	AOAC 19th Ed. 2012 925.3 DGHS Lab Manual-5	34, (0.1 to 1	0%

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		Sulphur dioxide	Pearson 9 th Ed, DGHS Lab Manual-5, DGHS Lab Manua AOAC 19 th Ed. 2012 990.28	al-6,	0 mg/k	g to 2000 mg/kg
		Total Phosphates as P ₂ O ₅	AOAC 995.11 19 th Ed., DGHS Lab Manual-5, Pearson 9 th Ed		0.025 to 1 g/100g as Phosphorus Positive/Negative	
		Peroxidase test	DGHS Manual Lab-5, Pearson 9 th Ed.	Р		
		Fruit juice content	DGHS Lab Manual-5 Pearson 9 th Ed.	1	% to 8	0%
		Added Wax	DGHS Lab Manual-5	Р	Present/	Absent
		Added colouring matter/ synthetic colours	DGHS Lab Manual-5	Р	Present/	Absent
		Fat content	IS 6287:1985 (RA 1999) DGHS Lab Manual-4	0).1% to	60%
6.	Milk & Milk Powder, Whey powders	Moisture	IS 12299:1998, IS 1165:2002 IS 1166:1986, IS 10484:1983 RA2005, IS 3507:1966 Amto IS 3508:1966 Amtd. 3, IS 4049:1967 Amtd.1, IS 14433:207 Amtd. 3, IS : 11623:2008, IS 2785:197 DGHS Lab Manual-1	3 1.1,).01% to	o 98%

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
Milk & Milk Powder, Whey powders	Total Solids	AOAC 19 th Ed. 941.08, IS 2802:1964 RA 2000, Amnd 4 IS 1166 : 1986 (RA 2003), Amnd 3, IS 10484 : 1983 RA 2005, IS 11622:1986 (RA 2003), DGHS Lab Manual-1, IS 1479:1961 (P-2) Amtd.1	0.01% - 4,	to 95%		
	Milk Fat/Total fat	IS 1224 (P-I) 1977 (RA 2003), IS 1166:1986, AOAC 19 th Ed. 933.05, 920.115, IS 10484:1983 RA2005, IS 2785:1979 RA2000 IS 1479:1961 (P-2) AMTD.1	3	o 50%		
	Milk Protein/Total Protein	IS 1479 (P-II) 1961 (RA 2003), DGHS Lab Manual-1, AOAC 19th Ed. 2012 991.20, AOAC 19th Ed. 2012 991.21	0.5% to	90%		
	Crude Fibre	DGHS Lab Manual-1, AOAC 19THEdn.935.53	0.2% to	0 25%		
	Carbohydrate	IS 1656 : 2007 AMND 2, By calculation	0.5 to 8	0%		
	Energy Value	RAL/CHE-FOOD/131	10 - 90	0 Kcal/100g		
	SNF (Total Solid Not Fat)	AOAC-19 th Ed. 990.21, DGHS Lab Manual-1, IS 1479:1961 (P-2) AMTD.1	1.0% to	20%		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Milk & Milk Products, Whey powders	Titratable Acidity	IS 1479 (P-I) :1960 AMND IS : 2802:1964 AMND 4, IS : 1165:2002 AMND 1, IS 1166: 1986 AMTD.3, DGHS Lab Manual-1, IS 4883:1980 RA 2005	4, 0.01 to	5%
	Ash	IS 1165 -2002 AMND 1 DGHS Lab Manual-1	0.0 to 4	0%
	Acid Insoluble Ash	DGHS Lab Manual-1, IS 12299:1998 AMTD.1	0.0 to 4	0%
	Added Starch	IS : 1479 (P- I) 1960 Amnd DGHS Lab Manual-1	4 Present	/Absent
	Added Sugar	IS : 1479 (P- I) 1960 Amnd DGHS Lab Manual-1	4 Present	/Absent
	Sodium	IS 15121 - 2002 & AAS/ICI AOAC 966.16 19 th ED., DGHS Lab Manual-9	P, 1 to 100	00 mg/kg
	Potassium	IS 15121 - 2002 & AAS/ICI AOAC 929.05,929.06 19 th E DGHS Lab Manual-9		00 mg/kg
	Magnesium	IS 15121 - 2002 & AAS/IC AOAC 19thEd., DGHS Lab Manual-9	P, 1 to 100	00 mg/kg

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	Calcium	IS 15121 - 2002 & AAS/ICP, AOAC 929.07 19 th ED., DGHS Lab Manual-9	1 to 100	00 mg/kg	
	Added Formaldehyde	IS 1479 (P-II) : 1961 (RA 2003 DGHS Lab Manual-1	3) Present.	/Absent	
	Urea	IS 1479 (P- II) 1961 (RA 2003 DGHS Lab Manual-1	3) Present	/Absent	
	рН	IS 1479 (P-I) 1960 Amnd 4 DGHS Lab Manual-1	1 to 14		
	Salt	IS 1479 (P-II) 1961 (RA 2003) DGHS Lab Manual-1	0.1% to	0 10%	
	Water activity	RAL/CHE-FOOD/252	0.1 to 1		
	Added Glucose	DGHS Lab Manual-1	Present	/Absent	
	Carbonates	DGHS Lab Manual-1	Present	/Absent	
	Sucrose content	DGHS Lab Manual-1, IS 1479 (P- II) 1961 (RA 2003	0.5 % to	o 60%	

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7.	Stimulant/ Nutritional Foods, Nutritional Health Drinks, nutritional powders, vitamin powders, Tea, tea premix Coffee, Coffee beans, Chocolates and Cocoa Beans,	Moisture/ total solids	IS 1164:1986 AMND 2, IS 1163:1992 AMND 2, IS 2791:1992 AMND 4, IS 3077:1992 AMTD.4, IS 13852:1994, IS 15342:2003 AMTD.1 AOAC 19 th Ed. 927.05, 931.04, DGHS Lab Manual-4, IS 2362:1993	0.01% to 40%
	Cocoa products	Ash	IS 1164:1986 AMND 2, IS 3633:2003, IS 13854:1994,IS 2791:1992 AMND 4, IS 3077:1992 AMTD.4, IS 15342:2003 AMTD.1 DGHS Lab Manual-4	0.01% to 40%
		Acid insoluble ash	IS 1164:1986 AMND 2, IS 1163:1992 AMND 2, IS 3077:1992 AMTD.4, IS 3633:2003, IS 15342:2003 AMTD.1, IS 13857:1993, DGHS Lab Manual-4	0.01% to 5%
		Crude Fiber	IS 1164:1986 AMND 2, IS 10226 (P-I) : 1982, IS 3633:2003, DGHS Lab Manual-4	2% to 30%
		рН	AOAC 19 th Ed. 970.21, DGHS Lab Manual-5	1 to 14

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	Water extract	IS 13862:1999, IS 3633:200 IS 3077:1992 AMTD.4, DGHS Lab Manual-4	03, 0.1% (o 50 %
	Water-soluble/ Water insoluble ash of Total ash	IS 13855:1993, IS 3633:200 DGHS Lab Manual-4	03 0.01%	to 98%
	Alkalinity of water-soluble ash (as K_2O_2)	IS 13856:1993, IS 3633:200 DGHS Lab Manual-4	03, 0.01%	to 5%
	Water activity	RAL/CHE-FOOD/252	0.1 to	1
	Sulphur dioxide	Pearson 9 th Ed, DGHS Lab Manual-4, AOAC 19th Ed. 2012 990.2	-	/kg to 2000 mg/kg
	Solubility in hot water	DGHS Lab Manual-4 IS 2791:1992 AMND 4	To pas	ss the test
	Solubility in cold water	IS 2791:1992 AMND 4	1 to 10) mins
	Caffeine content	IS 2791:1992 AMND 4 DGHS Lab Manual-4 IS 3077:1992 AMTD4	1% to	5%
	Iron Particles	IS 3633:2003 DGHS Lab Manual-4	10 to 5	500 mg/kg
	Freedom from extraneous matter and impurities	IS 3077 : 1992 RA 1998 AMND 4, DGHS Lab Man	Qualit ual-4	ative

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Р	etroleum ether extract	IS 3077:1992 RA1998, AMN 4, DGHS Lab Manual-4	D 2% to 2	0%	
C	Cocoa Solids	AOAC 19th Ed. 2012 931.05, IS 1163:1992 AMND 2, DGHS Lab Manual-4	, 0.2% to	95%	
Ν	Ailk solids	IS 1163:1992 AMND 2, DGHS Lab Manual-4	0.2% to	95%	
Ν	Лilk Fat	IS 1224 (P-I) :1977 (RA 2002 (First Revision), IS 1163:1992 AMND 2, DGHS Lab Manua AOAC 19 th Ed. 920.80 2012, IS 10484:1983 RA 2005 IS 2785:1979 RA 2000	2	50%	
Т	'otal fat/Cocoa butter	IS 1163:1992 AMND 2, AOAC 19 th Ed. 933.05, IS : 10484:1983 RA 2005, DGHS Lab Manual- 1,4	0.1% to	50%	
Р	Protein/Milk Protein	IS 1479 (P-II) :1961 (RA 200 AMND 1, AOAC 19th Ed. 2012 991.21 DGHS Lab Manual-1	3) 0.5% to	80%	
C	Carbohydrate	IS 1656 : 2007 AMND 2 By calculation	0.5 to 8	0%	
Е	Energy Value	RAL/CHE-FOOD/131	10 to 90	00 Kcal/100g	

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	Acidity/Titratable acidity	IS 1479 (P-I) : 1960 AMND 4 (RA 2003), IS 2802:1964 RA2000 AMND 4, IS 1165:2002 AMTD 1, IS 4883:1980 RA 2005, DGHS Lab Manual-1,4	4 0.01 to	5%
	Sodium	IS 15121:2002 & AAS/ICP, AOAC 19 th ED., DGHS Lab Manual-9	1 to 10	00 mg/kg
	Potassium	IS 15121:2002 & AAS/ICP, AOAC 19 th ED., DGHS Lab Manual-9	1 to 10	00 mg/kg
	Magnesium	IS 15121:2002 & AAS/ICP, AOAC 19 th ED., DGHS Lab Manual-9	1 to 10	00 mg/kg
	Calcium	IS 15121:2002 & AAS/ICP, AOAC 19 th ED., DGHS Lab Manual-9	1 to 10	00 mg/kg
	Physical parameters (damaged, sprouted, slightly damaged, defected, insect damaged, mouldy, flat, germinated, slatty, filth, rhodent hair excreta)	DGHS Lab Manual-3	0.1% to	o 100%

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8.	Pulses, Cereals, flours, cereal meals, starch and starch products, cereal & cakes	Moisture Ash	IS : 1009:1979 AMND 2, GAFTA 2 :1-2003, IS 4333:2002 ((P-)-II), DGHS Lab Manual-3 IS 4684:1975 AMTD.2 IS 1155:1968 Amtd.3, IS 1010:1968 Amtd.3, IS 4706:1978 (P-II) IS 1485:1993 AMTD.1 IS 2404:1993 IS : 1009:1979 Amnd 2 GAFTA 12 :1-2003 DGHS Lab Manual-3 IS 4684:1975 Amtd.2 IS 1155:1968 Amtd3 IS 1010:1968 Amtd3 IS 4706:1978 (P-II) IS 1485:1993 Amtd.1		to 40%
		Acid insoluble ash	IS 1403:1999 Amtd.1 IS 2639:1999 Amtd.1 IS : 1009:1979 Amnd 2 GAFTA 13 :1-2003 DGHS Lab Manual-3 IS 4684:1975 Amtd.2 IS 1155:1968 Amtd.3 IS 1010:1968 Amtd.3 IS 4706:1978 (P-II) IS 1485:1993 Amtd.1 IS 2639:1999 Amtd.1	0.01%	to 40%

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Pulses, Cereals, flours, cereal meals, starch and starch products, cereal & cakes	urs, cereal als, starch and rch products,	Fat	AOAC 19 TH Edn. 920.85 DGHS Lab Manual-3 GAFTA 3 :0-2003 IS 4684:1975 AMTD.2	0.1%	to 20%
	Protein	AOAC 19 th Edn. 920.87, GAFTA 4 :0-2003 IS 1485:1993 AMND 1 DGHS Lab Manual-3 IS 4684:1975 AMTD.2 IS 4706:1978 (P-II)	0.5%	to 60%	
		Carbohydrate	IS 1656:2007 AMND 2 By calculation	0.5%	to 90%
		Energy Value	RAL/CHE-FOOD/131	10 to	900 Kcal / 100g
		Crude Fibre	GAFTA 10 :0-2003 DGHS Lab Manual-3 IS 4706:1978 (P-II) IS 4684:1975 AMTD.2	0.2%	to 25%
		Gluten (dry and wet) content	IS 1009:1979 AMND 2, IS 1010:1968 Amtd.3 IS 1155:1968 Amtd.3 DGHS Lab Manual-3 IS 8162:1998	0.5%	to 30%
		Acidity/Alcoholic acidity	IS 1009:1979 AMND 2 IS 1010:1968 Amtd.3 IS 1155:1968 Amtd.3 DGHS Lab Manual-3	0.019	% to 5 %

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Pulses, Cereals, flours, cereal meals, cereal & cakes	Sodium	IS 15121 : 2002 & AAS/ICP, AOAC 966.16 19 th ED., DGHS Lab Manual-9	1 to 100	00 mg/kg
cakes	Potassium	IS 15121 : 2002 & AAS/ICP, AOAC 929.05,929.06 19 th EE DGHS Lab Manual-9		00 mg/kg
	Magnesium	IS 15121 : 2002 & AAS/ICP, AOAC 19 th ED., DGHS Lab Manual-9	1 to 100	00 mg/kg
	Calcium	IS 15121 : 2002 & AAS/ICP, AOAC 929.07 19 th ED., DGHS Lab Manual-9	1 to 100	00 mg/kg
	Granularity/Particle size	IS 1009 : 1979 AMND 2 IS 1155 : 1968 Amtd.3 DGHS Lab Manual-3	0.1% to	o 100%
	Acid value/acidity of extracted fat	IS 4684 : 1975 AMTD.2 DGHS Lab Manual-3	0.1% to	o 10%
	Uric Acid	IS : 4333 (P-5) 1970 DGHS Lab Manual-3	0.1 mg/	'kg to 5 mg/kg
	1000 Kernel Weight	IS 4333 (P-4) : 2002	0.1 g to	50 g
	Salt content as NaCl	DGHS Lab Manual-3	0.1% to	o 10%
	Ammonium Carbonate	DGHS Lab Manual-8	5 mg/kg	g to 500 mg/kg

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	Syntehtic Colour	DGHS Lab Manual-3	5 mg/kg	g to 500 mg/kg
	Shrivelled/ShrunkenBroken (2mm sieve)	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.01% 1	o 5%
	Insect/Weevilled Damaged	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.01% 1	to 15%
	Damaged and Discoloured	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.01% 1	to 10%
	Foreign Matter/Admixture	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.01% 1	to 10%
	Other Food/ Edible grains	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.01% 1	to 10%
	Broken	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	1% to 3	5%

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C	halky	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	1% to 2	20%
R	ed-Streaked Kernels	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.1% to	0.1%
Pe	ecks	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.1% to	0.1%
In	nmature Kernels	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.1% to	01%
Y	ellow kernels	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.1% to	9 5%
Pa	addy	IS 4333:1996 (P-I), DGHS Lab Manual-3 IS 2813:1995 Amtd.1 IS 3579:1966 Amtd.1	0.1% to	0.1%
St	arch contents	IS 4706 (P-II) : 1978 RA 200 DGHS Lab Manual-3	05 1% to 8	30%

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		Urease Activity	GAFTA 27 : 0 - 2003	0.04 to	10 mg/g		
		Physical tests (Filth, damaged, discoloured, splits, ergots, argemone, live/dead insects, rhodent, hair & excreta contamination, insect fragments, Excreta, visible mould, total defects)	IS 4706 (P-I) : 1978 Amtd. 1 DGHS Lab Manual-3, IS 4333:1996 (P-I) IS 3579:1966 Amtd. 1 IS 2813:1995 Amtd. 1	0.1% to	o 100%		
9.	Bakery & confectionary products, Sugar and sugar based confectionary products	Moisture/Total solids	IS : 12711:1989 Amnd 1 IS 6287:1985 Amnd 1 IS 1320:1988 Amtd.1 IS 1011:2002 Amtd. 1 IS 1483:1988 Amtd. 1 IS 5982:2002 Amtd. 2 IS 1168:1973 Amnd 2 IS 873:1973 Amtd. 3 IS 8555:1988 Amtd. 2 DGHS Lab Manual-3, 4	0.01%	to 40%		
		рН	AOAC 19 th Ed 945.42 2012, 943.02 IS 12711:1989, Amnd 1 IS 1483:1988 Amtd. 1 IS 873:1973 Amtd. 3	, 0.1 to 14			
		Density g/ml	IS 1162:1958 Amnd 2 Pearson's 9 th Ed.	0.08 to	1.5		

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As	sh	IS 12711:1989 Amnd 1 IS 6287:1985 Amnd 1 IS 1168:1973 Amnd.2 DGHS Lab Manual-3,4	0.1% to	9 40%	
Su	llphated ash	IS 6287:1985 Amnd 1 DGHS Lab Manual-4	0.1% to	0 10%	
Ad	cid Insoluble Ash	IS : 12711:1989 Amnd 1 IS 6287:1985 Amnd 1 IS 1483:1988 Amtd. 1 IS 1011:2002 Amtd. 1 DGHS Lab Manual-3,4	0.01%	to 40%	
Fa	ıt	IS : 12711:1989 Amnd 1 IS 6287:1985 Amnd 1 AOAC 19 th Ed.2012 935.38 DGHS Lab Manual-3,4	0.05% t	to 60%	
Cr	rude Fiber	IS 12711:1989 Amnd 1 IS 1483:1988 Amtd 1 DGHS Lab Manual-3,4	0.1% to	9 30%	
Ad	cidity of extracted fat	IS 1011:2002 Amnd 1 DGHS Lab Manual-3 IS : 12711:1989 Amnd 1	0.1% to	9 3%	
Pr	otein	AOAC-19 th Ed. 950.36 201 IS 6287:1985 Amnd 1 DGHS Lab Manual-3,4	2 0.5% to	o 50%	

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Bakery & confectionary	Starch	IS 4706:1978 (P-II) DGHS Lab Manual-3,4	0.1% to	o 80%		
products Sugar and sugar based confectionary products	Polarization value	IS 5975:2003 Amnd 2 DGHS Lab Manual-4, Pearson's 9 th Ed.	95% to	100%		
	ICUMSA colour	RAL/CHE-FOOD/219 (International Colour Unit Method for Sugar Analysis, method no. 10), DGHS Lab Manual-4	1 to 250	0		
	Brix	IS 13815:2010, DGHS Lab Manual-5, Pearson's 9 th Ed.	10 to 7:	5		
	Alcoholic acidity/Acidity	DGHS Lab Manual-3 IS 12711:1989 Amnd 1	0.1% to	o 5%		
	Peroxide value	IS 548 (P-I) : 1964 Amtd. 5, DGHS Lab Manual-2	0.1 to 1 extracted	0 Meq/kg of ed fat		
	Carbohydrate	IS 1656:2007 Amnd 2 By calculation	0.5% to	o 80%		
	Energy Value	RAL/CHE-FOOD/131	10 to 9	00 Kcal/100g		

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	Sugar/Sucrose	AOAC 19 th Ed.2012 923.09 IS 1168:1973 Amnd.2 IS 6287:1985 Amnd 1 IS 5982:2002 Amtd.2, IS 1011:2002 Amtd. 1	0.5% to	95%	
	Reducing sugar	AOAC 19 th Edn. 2012 923.09 IS 1168:1973 Amnd.2 IS 6287:1985 Amnd. 1 IS 5982:2002 Amtd.2 IS 1011:2002 Amtd. 1	0.5% to	95%	
	Water activity	RAL/CHE-FOOD/252	0.1 to 1		
	Sulphur dioxide	Pearson 9 th Ed IS 6287:1985 Amnd 1 DGHS Lab Manual-4 IS 5982:2002 Amtd.2 AOAC 19 th Ed. 2012 990.28	10 mg/ł	kg to 2000 mg/kg	
	Sodium	IS 15121:2002 & AAS/ICP AOAC 19 th Ed., DGHS Lab Manual-9	1 to 100	00 mg/kg	
	Potassium	IS 15121:2002 & AAS/ICP AOAC 19 th Ed., DGHS Lab Manual-9	1 to 100	00 mg/kg	
	Magnesium	IS 15121:2002 & AAS/ICP AOAC 19 th Ed., DGHS Lab Manual-9	1 to 100	00 mg/kg	

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		Calcium	IS 15121:2002 & AAS/ICP AOAC 19 th Ed., DGHS Lab Manual-9	1 to 10	00 mg/kg		
		Salt content as NaCl	DGHS Lab Manual-3	0.1% to	o 10%		
		Ammonium Carbonate	DGHS Lab Manual-8	5 mg/k	g to 500 mg/kg		
		Syntehtic Colour	DGHS Lab Manual-3	5 mg/k	g to 500 mg/kg		
10.	Honey and honey based products	Specific Gravity	IS 4941:1994 RA 2002, Amnd DGHS Lab Manual-4	1, 0.1 to 5	5.0		
		Moisture	IS 4941:1994 RA 2002, Amnd DGHS Lab Manual-4	1, 0.1 % t	o 40%		
		Refractive Index	IS 4941:1994 RA 2002, Amnd DGHS Lab Manual-4	1, 1.3 to 1	.9		
		Reducing Sugar	IS 4941:1994 RA 2002, Amnd DGHS Lab Manual-4 AOAC 19th Ed. 2012 920.183	1, 0.5% to	o 80%		
		Ash	IS 4941:1994 RA 2002, Amnd DGHS Lab Manual-4	1, 0.1 to 4	0%		
		Acidity	IS 4941:1994 RA 2002, Amnd DGHS Lab Manual-4	1, 0.01 to	2%		

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	Honey and honey based products	Sucrose	IS 4941:1994 RA 2002, An DGHS Lab Manual-4 AOAC 19th Ed. 2012 920.1		0.5% to	80%	
		pH	DGHS Lab Manual-5		0.1 to 1	4	
		Optical Density	IS 4941:1994 RA 2002, An	nnd 1	0.001 to	1.999	
		Brix	By Refractomer IS 4941:1994 RA 2002, An	10% to 60% Amnd 1		60%	
		Freedom from foreign maters	IS 4941:1994 RA 2002, An	nnd 1	Qualitat	ive	
		Colour	IS 4941:1994 RA 2002, An	nnd 1	Qualitat	ive	
		Fiche's Test	IS 4941:1994 RA 2002, An DGHS Lab Manual-4	nnd 1	Qualitat	ive	
		Glucose Fructose Ratio	IS 4941:1994 RA 2002, An DGHS Lab Manual-4	nnd 1	0.5 to 2.	0	
		HMF test	IS 4941:1994 RA 2002, An DGHS Lab Manual-4	nnd 1	1 to 100	mg/kg	
11.	Oils and Fats products, Oil cakes	Moisture	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2		0.1% to	98%	
	and oil meals and Soya lecithin, Soya granules, Soya TVP	Refractive Index	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2		1.40 to 2	2.00	

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	Oils and Fats products, Oil cakes	Acid Value	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	0.1 to 2 sam	00 mg of KOH/g of		
Soya le granul	and oil meals and Soya lecithin, Soya granules, Soya TVP	Free Fatty Acids	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	0.01% t	o 30%		
		Saponification Value	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	50 to 30 sam	00 mg of KOH/g of		
		Unsaponifiable Matter	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	0.01% t	0 5%		
		lodine Value	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	1 to 50 12/100 51 to 30	g of sam		
		Peroxide Value	DGHS Lab Manual-2, Pearson's 9 th Ed., AOAC 19th Ed. 2012 965.33 IS 548 (P-I) 1964 Amnd 5		i0 Meq/kg 10 Meq/kg		
		Reichert Meissel Value	DGHS Lab Manual-2 AOAC 19th Ed. 2012 925.41 IS: 548 (P-I) 1964 Amnd 5	0.5 to 4	0		
		Polenske Value	DGHS Lab Manual-2, AOAC 19th Ed. 2012 925.41, IS: 548 I) 1964 Amnd 5	0.5 to 4 (P-	0		
		Hydroxyl value	IS: 548 (P-I) 1964 Amnd 5	1 to 500 sample) mg of KOH/g of		

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Oils and Fats	Energy Value	RAL/CHE-FOOD/131	10 to 9	00 Kcal/100g
products, Oil cakes and oil meals and Soya lecithin, Soya	Insoluble Matter/Insoluble impurities	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	0.01 to	5%
granules, Soya TVP	Argemone Oil test	DGHS Lab Manual-2 IS: 548 (P-II) 1976 (RA 200 Amnd 7		Absent
	Rice bran oil	DGHS Lab Manual-2, IS: 548 (P-II) 1976 (RA 200 Amnd 7		e/Negative at 10%
	Linseed oil	DGHS Lab Manual-2 , IS: : (P-II) 1976 (RA 2006) Ami		e/Negative at 1%
	Cotton seed oil	IS 548 (P-II) 1976 Amnd 7	Positiv	e/Negative at 0.1%
	Semi siccative oil	IS 548 (P-II) 1976 Amnd 7 DGHS Lab Manual-2	Positiv	e/Negative at 0.1%
	Olive pomace oil	IS 548 (P-II) 1976 Amnd 7 DGHS Lab Manual-2	Positiv	e/Negative at 0.1%
	Teaseed oil	IS 548 (P-II) 1976 Amnd 7 DGHS Lab Manual-2	Positiv	e/Negative at 0.1%
	Sesame oil	IS 548 (P-II) 1976 Amnd 7 DGHS Lab Manual-2	Positiv	e/Negative at 0.1%
	Caster oil	IS 548 (P-II) 1976 Amnd 7	Positiv	e/Negative at 1%

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		Hydrocyanic acid	DGHS Lab Manual-2	Positiv	ve/Negative at 0.1%
		Coal tar oil soluble colours	IS 548 (P-II) 1976 (RA 2006) AMND 7, DGHS Lab Manua		ve/Negative at /kg
		Specific Gravity	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	0.9 to	1.5
		Mineral Oil	DGHS Lab Manual-2	Presen	t/Absent
		Purity as acetone insoluble residue	IS 5055:1996 Amtd 1	0.1 to	100%
		Benzene insoluble matter	IS 5055:1996 Amtd 1	0.1 to	5%
		Cloud Point	IS: 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	0 to 50	°C
		Allyl isothiocynate	IS: 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	Absen	t/Present
12.	Alcoholic beverages	Total Acidity as Tartaric acid	AOAC 19 th Ed. 950.15 DGHS Lab Manual-5 IS 3752:2005 IS 7585:1995	5 to 20	00 g/100 ltr
		Volatile Acidity as acetic acid	IS 3752:2005, DGHS Lab Manual-5 AOAC 19 th 960.16	0.5 to	200 g/100 ltr

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Alcoholic beverages	Ethyl alcohol-Actual alcoholi and total alcoholic strength	ic IS 7585:1995 IS 3752:2005 IS 5286:2005 Amtd. 1 IS 4450:2005 Amtd. 1 IS 5287:2005 Amtd. 1	0.1 to 7	70%		
	Residue on Evaporation	IS 3752:2005 IS 7585:1995 IS 4450:2005 Amd.1 IS 5286:2005 IS 4449:2205 Amtd.1	0.1 to	10%		
	Esters	IS 3752:2005 IS 4450:2005 AMD.1 IS 5286:2005 IS 5287:2005 Amtd1 IS 4449:2205 Amtd1	0.05%	to 10%		
	Higher alcohols	IS 3752:2005, IS 5286:2005 IS 4450:2005 AMD.1 IS 4449:2205 Amtd1 IS 5287:2005 Amtd1	0.05%	to 10%		
	Aldehydes	IS 3752:2005 IS 5286:2005 IS 4450:2005 AMD.1 IS 4449:2205 AMTD.1 IS 5287:2005 AMTD.1	0.01%	to 10%		

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		Methyl alcohol	IS 3752:2005 IS 5287:2005 AMTD.1 IS 4450:2005 AMD.1 IS 5286:2005 IS 4449:2205 AMTD.1	Positiv	e/negative at 0.19	
		Sulphur dioxide	IS 7585:1995, Pearson 9 th Ed., AOAC 19th Ed. 2012 990.28	1 to 25	00 mg/kg	
13.	Non-alcoholic beverages Carbonated and non-carbonated	Total Acidity as Tartaric acid	AOAC 19 th Ed. 2012 950.15 DGHS Lab Manual-5 IS 3752:2005 IS 7585:1995	5 to 20	0 g/100 ltr	
	beverages	Fat	DGHS Lab Manual-4	0.1% to	o 25%	
		Protein	DGHS Lab Manual-4	0.1% to	o 50%	
		Carbohydrate	IS 1656:2007 AMND 2 By calculation	0.5% to	o 60%	
		Energy value	RAL/CHE-FOOD/131	10 to 9	00 Kcal/100g	
		Sugar	AOAC 19 th Edn 923.09 DGHS Lab Manual-4 IS 2346:1992 Amnd 3	0.1% to	o 25%	
		Salt	AOAC-19 th Ed. 935.47 DGHS Lab Manual-5	0.1% to	o 15%	

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 (1	8	Sodium	IS 15121 - 2002 & AAS/IC AOAC 966.16 19 TH ED., DGHS Lab Manual-9	P, 1 to 10	00 mg/kg		
		Potassium	IS 15121 - 2002 & AAS/IC AOAC 929.05,929.06 19 th 1 2012, DGHS Lab Manual-9	ED.	00 mg/kg		
		Magnesium	IS 15121 - 2002 & AAS/IC AOAC 19 th Ed., DGHS Lab Manual-9	P, 1 to 10	00 mg/kg		
		Calcium	IS 15121 - 2002 & AAS/IC AOAC 929.07 19 th Ed. 201 DGHS Lab Manual-9		00 mg/kg		
		Vitamin C	AOAC-19 th Ed. 2012 967.2 IS 5838:1970		100gm to ng/100 gm		
		Benzoic Acid	IS 12014 (P-I) :1986 RA 2 AOAC 19 th Ed 2012 963.19		kg to 2500 mg/kg		
		Total soluble solids	IS 3752:2005 DGHS Lab Manual-5	0.1% 1	to 45%		
		рН	AOAC 19 th Ed 960.19 2012 DGHS Lab Manual-5 IS 7585:1995	2, 1 to 14	4		

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		Fixed acidity	IS 3752:2005	5 to 200	0 g/100 ltr	
		Sulphur dioxide	IS 7585:1995, Pearson 9 th Ed., DGHS Lab Manual-8 AOAC 19th Ed. 2012 990.28	1 to 250	00 mg/kg	
		Water activity	RAL/CHE-FOOD/252	0.1 to 1		
14.	Spices, Condiments, Herbs and herbal products Masala/ Curry Powders, Pickels, Chutneys, Sauces, Dressings	Moisture	IS 1797:1985 RA2001 Amnd 2 IS 1907:1984 R 2001 Amnd 2 IS 2322:2010 IS: 5453 ((P-2) 1996 AOAC 19THEdn.986.21 DGHS Lab Manual-11 IS 253:1985 AMTD. 1 IS 7224:2006 AMTD.2		to 40%	
		Extraneous matter/refractions	DGHS Lab Manual-11 IS 1797:1985 RA 2001 Amnd	0.1% to	0 20%	
		Ash	IS 1797:1985 Amnd 2 DGHS Lab Manual-11 IS 3500:1966 Amtd.1 IS: 5453 (P-2):1996	0.01%	to 40%	
		Acid insoluble ash/Acid insoluble matter	IS 1797:1985 RA 2001 Amnd DGHS Lab Manual11 IS: 5453 ((P-2) : 1996 IS 253:1985 AMTD. 1 IS 7224:2006 AMTD.2	2 0.01%	to 40%	

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Spices,Condiments, Herbs and herbal products Masala/ Curry Powders,	Water soluble ash	IS 1797:1985 RA 2001 Amnd 2 IS 1908:2008 IS 7224:2006 AMTD.2	2 0.01%	to 30%		
Pickels, Chutneys, Sauces, Dressings	Water insoluble ash/water insoluble matter	IS 1797:1985 RA2001 Amnd 2 IS 1908:2008 IS 253:1985 AMTD. 1	0.01%	to 30%		
	Crude fibre	IS 1797:1985 RA2001 Amnd 2 DGHS Manual-11 IS: 5453 ((P-1) 1996 AMTD 1	0.1% to	o 60%		
	Starch	RAL/CHE-FOOD/157 IS 3576:2010	0.1% to	80%		
	Non volatile ether extract	IS 1797:1985 RA 2001 Amnd 2 DGHS Lab Manual-11	2 0.1% to	o 30%		
	Alcohol soluble extract	IS 1797:1985 RA 2001 Amnd 2 DGHS Lab Manual-11	2 0.1% to	o 20%		
	Cold water soluble extract	IS 1797:1985 RA 2001 Amnd 2 DGHS Lab Manual-11 IS 5453 (P-1) : 1996 AMTD 1	2 0.1% to	> 20%		
	Salt/Sodium chloride content	IS 1797:1985 RA2001 Amnd 2. Peerson 9 th Ed., DGHS Lab Manual-11 IS 3501:1966 AMTD.1 IS 7224:2006 AMTD.2 IS 253:1985 AMTD. 1	, 0.05% t	to 20%		

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P	rotein/ Nitrogen	AOAC 19 th Ed.2012 920.173, 920.152 IS 5453 (P-1) 1996 AMTD	0.5% to	o 50%		
C	arbohydrate	IS 1656:2007 AMND 2 By calculation	0.5 to 8	30%		
Pe	eroxide Value	DGHS Lab Manual-2 Pearson's 9 th Ed.	0.1 to 1 extracted	0 mEq/kg of ed fat		
E	nergy Value	RAL/CHE-FOOD/131	10 to 9	00 Kcal/100g		
W	Vater activity	RAL/CHE-FOOD/252	0.1 to 1			
St	odium	IS 15121 - 2002 & AAS/IC AOAC 19 th Ed., DGHS Lab Manual-9	P, 1 to 10	00 mg/kg		
Pe	otassium	IS 15121 - 2002 & AAS/IC AOAC 19 th Ed., DGHS Lab Manual-9	P, 1 to 10	00 mg/kg		
M	lagnesium	IS 15121 - 2002 & AAS/IC AOAC 19 th Ed., DGHS Lab Manual-9	P, 1 to 10	00 mg/kg		
S	ulphur Dioxide	Pearson 9 th Ed, DGHS Lab Manual-4, AOAC 19th Ed. 2012 990.2	-	kg to 2000 mg/kg		

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Spices,Condiments, Herbs and herbal products Masala/ Curry Powders, Pickels, Chutneys,	Calcium as Calcium Oxide/Lime as CaO	DGHS Lab Manual-11 IS 1797:1985 RA 2001 Amnd 2, IS 7224:2006 AMTD.2 IS 253:1985 AMTD. 1	1 to 10 0.05%	0 mg/kg to 5%		
Sauces, Dressings	Vitatmin C	AOAC-19 th Ed. 2012 967.21		.00gm to ng/100 gm		
	Volatile oil	DGHS Lab Manual-11 IS 1797:1985 RA 2001 Amnd 2, AOAC 19th Ed. 2012 962.17	1% to 9	5 5		
	Physical tests (Impurities, Filth, Tendrils, Khokar mother spices, Insect damaged spices Headless, damaged, broken, visible mould, discoloured, splits, spices,mould affected, live/dead insects, rhodent contamination, insect fragments, Excreta, Defective Rhizomes)	Visual/AOAC 19 th Ed. 2012 975.48, 960.51 DGHS Lab Manual-11 IS 2322:2010 IS 3576:2010	0.1% to	> 20%		
	Capsaicin/ Scoville Heat Units/ Pungency	RAL/CHE-FOOD/179 AOAC 19th Ed. 2012 995.03	1 to 10	00000 SHU		
	Colour value/ colour oleoresins	RAL/CHE-FOOD/179 AOAC 19 th ED. 2012 971.26	1 to 10	00000 SHU		
	Curcumin content	RAL/CHE-FOOD/267 IS 3576:2010	0.5% to	o 50%		

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		Piperine content	AOAC 19th Ed. 2012987.07, DGHS Lab Manual-11	0.1 to 1	5%		
		Acidity	IS 2860:1964 AMND 1 AOAC 19 th ED. 2012 935.57	0.1% to	30%		
		Total solids	AOAC 19 th Ed.2012 920.151	0.5% to	100%		
		Total soluble solids	IS 3500:1966 Amnd 1, IS 2860:1964 Amnd 1	0.1% to	100%		
		рН	DGHS Lab Manual-5	1 to 14			
		Benzoic Acid	IS 12014 (P-I) 1986 AOAC 19th Ed. 2012 963.19 IS 3501:1966 Amtd.1	5 mg/kg	g to 2500 mg/kg		
		Drained weight	DGHS Lab Manual-5 IS 2860:1964 Amnd 1	0.1 to 2	0 Kg		
		Presence of Lead chromate	IS 3576:2010, DGHS Lab Manual-11	Qualitat	ive		
		Added colouring matter	DGHS Lab Manual8	5 mg/kg Present	g to 500 mg/kg Absent		
15.	Tobacco & Tobacco products	Moisture/ Loss on drying/Loss on heating	IS 5643:1999 Amnd 1	0.01% o	o 40%		
		Total Ash	IS 5643:1999 Amnd 1	0.01% t	o 40%		
		Acid Insoluble Ash	IS 5643:1999 Amnd 1	0.01% t	o 40%		

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	Tobacco & Tobacco products	Nicotine	IS 5643:1999 Amnd 1	0.1% to 15%
		Freedom from mould and weevilled	IS 5643:1999 Amnd 1	Qualitative
		Total nitrogen	IS 5643:1999 Amnd 1	0.1% to 15%
		Total chlorides	IS 5643:1999 Amnd 1	0.1% to 15%
16.	Flavours	Appearance	Visual Examination	Qualitative
		Refractive Index at 20 °C, 25 °C	IS 548 (P-I) 1964 Amnd 5 DGHS Lab Manual-2	1.3 to 1.9
		Specific Gravity at 20 deg C, 25 deg C	IS: 548:(P-) I:1964 Amnd 5 DGHS Lab Manual-2	0.5 to 1.4
		рН	DGHS Lab Manual-5	1 to 14
17.	Intermediates,	Moisture	IS 1699 : 1995 Amtd 1	0.01% to 40%
	Food colours	Water insoluble matter	IS 1699 : 1995 Amtd 1	0.0% to 30%
		Total Dye content (Mixtures or total)	IS : 1697:1994, IS 1694:1994, IS 1695:1994, IS 2923:1995, IS 6406:1994, IS 2558:1994 amtd.1, IS 5346:1994 amtd.4, IS 1699:1995 amtd. 1, IS 1698:1994 amtd.1, IS 6022:1994	0.1% to 100%

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6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Intermediates, Food colours	Chlorides	IS 1699 : 1995 Amtd 1	0.1% to 30%
	roou colours	Sulfates	IS 1699 : 1995 Amtd 1	0.1% to 30%
		Combined Ether extracts/Ether extract	IS 1699 : 1995 Amtd 1	0.01% to 5%
18.	8. Additives- Antioxidants, Preservatives, Artificial sweetners (Ready to eat products, processed foods)	BHA, Butylated hydroxyanisole	AOAC 19 th Ed. 2012 965.28 Food additives direct Ch 47 (P-2) to (P-5) DGHS Lab Manual-8	10 to 1000 mg/kg
		BHT, Butylated hydroxytoluene	AOAC 19 th Ed. 2012 965.28 Food additives direct Ch 47 (P-2) to (P-5) DGHS Lab Manual-8	10 to 1000 mg/kg
		TBHQ	AOAC 19 th Ed. 2012 983.15 Food additives direct Ch 47 (P-2) to (P-5) DGHS Lab Manual-8	Absent/Present
		Propyl Gallate	AOAC 19 th Ed. 2012 952.09 Food additives direct Ch 47 (P-2) to (P-5) DGHS Lab Manual-8	10 to 1000 mg/kg
		NDGA, Nordihydroquaiaretic acid	DGHS Lab Manual-8	Present/Absent

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	Be	nzoic acid	DGHS Lab Manual-8 AOAC 19 th Ed. 2012 910.02 960.38		000 mg/kg			
	So	rbic acid	DGHS Lab Manual-8 AOAC 19th Ed. 2012 974.10 2012		000 mg/kg			
	P-l	Hydroxy Benzoic acid	DGHS Lab Manual-8	Presen	t/Absent			
	Ni	trate as NO ₃	DGHS Lab Manual-8 AOAC 19th Ed. 2012 993.0 2012		000 mg/kg			
	Ni	trite as NO ₂	DGHS Lab Manual-8 AOAC-19 th Ed.973.31 2012		000 mg/kg			
	Sa	licylic acid	DGHS Lab Manual-8 AOAC 19th Ed. 2012 975.30		t/Absent			
	Во	rates	DGHS Lab Manual-8 AOAC 19th Ed. 2012 970.3		t/Absent			
	Sa	cchrine	DGHS Lab Manual-8	Presen	t/Absent			
	Du	cline	DGHS Lab Manual-8 AOAC 19th Ed. 2012 957.1 2012		t/Absent			
	Су	clamate	DGHS Lab Manual-8 AOAC 19th Ed. 2012 957.09		t/Absent			
	As	pertame	DGHS Lab Manual-8	Presen	t/Absent			

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		PESTICIDE RESIDUE				
1.	Cereals, Pulses, Cotton Grains, seeds, Husks, Flours, nut & nut products	Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomers (o,p, p,p, isomers of DDT, DDE, DDD), Dieldrin, Endrin, Endosulphan, Lindane, BCH & its isomers (Alpha, Beta Delta HCH), Alpha Endosulphan, Beta Endosulphan, Endosulphan sulphate, Heptachlor, Organophosphorus pesticides Acephate, Azinphos-methyl, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Fenthion, Fenthion sulphone and sulphoxide, Iprobenphos, Malathion, Malaoxan, 4-bromo-2-chloro Phenol, Methamidophos, Monocrotophos, Omethoate, Oxydemeton-methyl, Demeton-S-Methylsulfone, Parathion Ethyl, Parathio Methyl, Profenophos, Phorate, Phorate sulphone, phorate sulphoxide, Phosalone, Phosphamidon, Pirimiphos methyl, Quinalphos, Triazophos, Mevinphos	RAL/CHE-PR/1, Issue no. 4, Sept 2012		.01 mg/kg g/kg to 10 mg/kg	

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	Cereals, Pulses, Cotton Grains, seeds, Husks, Flours, nut & nut products	Synthetic Pyrethroids Cyfluthrin (all isomers), Lambda Cyhalothrin, Cypermethrin (all isomers), Deltamethrin, Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers), Ethofenprox Carbamates Carbamates Carbaryl, Carbofuran, 3-hydroxy carbofuran, Carbosulphan, Indoxacarb, Iprovalicarb, Methomyl, Thiodicarb Traizoles Bitertanol, Flusilazole, Hexaconazole, Myclobutanil, Penconazole, Difenconazole, Paclobutrazole, Propiconazole, Tridemefon Tebuconazole, Triadimenol Benzimidazole Carbendazim, Thiophenate Methyl			.01 mg/kg g/kg to 10 mg/kg		
		Triazines Atrazine, Simazine Acylamino Acid Fingicides Metalaxyl and metalaxyl-M,	RAL/CHE-PR/1 Issue no. 4, Sept 2012		.01 mg/kg g/kg to 10 mg/kg		
		Benalxyl and Benalxyl-M Imidazoles Mefenoxam, Fenamidone					

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	Nicotinoids Acetamiprid, Imidacloprid, Thiacloprid, Thiamethoxam	RAL/CHE-PR/1 Issue no. 4, Sept 2012		.01 mg/kg g/kg to 10 mg/kg
	Morpholine Dimethomorph			
	Strobilurin Trifloxystrobin, Pyraclostrobin, Kresoxim-Methyl			
	Pendimethalin, Trifluralin			
	Miscellenous group Buprofezin, Emamectin benzoate, Spinosad (Sum of Spinosad A & B), Azoxystrobin Propargite, Chlormequat Chloride, Flufenoxuron, Oxyfluorfen, Fenpyroximate, Flubendiamide, Forchlorfenuron, Isoprothiolane, Oxadiazon, Propargite, Pyriproxyfen, Spiromesifen, Imazalil, Propoxur, Vinclozolin, Malaoxane, Methyl paraoxane, 2,4 D, Metolachlor, 6-benzyl adenine, Tetraconazole, Isoproturon, Alachlor, Copper oxy chloride Fipronil, Fipronil Sulfone			

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2.	Fruits and Vegetables Products	Ald Chli (o,p DD) Die Lind (Alj End End Hep Org Ace Chli Chli Dic Etri Fen Fen sulp amr Ipro Mal 4-br Met Om Der Para Met Phe	ganochlorine pesticides rin, Chlorothalonil, ordane, DDT & its isomers o, p,p, isomers of DDT, DDE, D), Diclofluanid, Dicofol, ldrin, Endrin, Endosulphan, dane, BCH & its isomers pha, Beta Delta HCH), Alpha losulphan, Beta Endosulphan, losulphan sulphate, otachlor, Heptachlor Epoxide ganophosphorus pesticides ephate, Azinphos-methyl, orfenvinphos, Chlorpyriphos, orpyriphos methyl, Diazinon, hlorvos, Dimethoate, Ethion, mphos, Edifenphos, chlorphos, Fenitrothion, thion, Fenthion sulphone and ohoxide, Glufosinate nonium, MPP, Glyposate, obenphos, Malathion, laoxan, romo-2-chloro Phenol, thamidophos, Monocrotophos, ethoate, Oxydemeton-methyl, neton-S-Methylsulfone, athion Ethyl, Parathion thyl, Paraxone methyl, nthoate, Profenophos, orate, Phorate sulphone,	RAL/FFV-PR/ 3, 4, 6, 7, 10, 11, 13, 14 Issue no. 8, Jul 2014			01 mg/kg g/kg to 10 mg/kg

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		Phorate sulphoxide, Phosalone, Phosphamidon, Pirimiphos methyl, Propetamphos, Quinalphos, Temephos, Thiometon, Triazophos, Bifenthrin, Ethephon, Methidathion, Mevinphos	RAL/FFV-PR/ 3,4,6,7,10,11,13,14 Issue no. 8, Jul 2014		.01 mg/kg g/kg to 10 mg/kg		
		Synthetic pyrethoids Allithrin, Bioallithrin, Cyfluthrin (all isomers), Lambda Cyhalothrin, Cypermethrin (all isomers), Deltamethrin, Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers), Ethofenprox Fenpropathrin, tau-fluvalinate, tau-fluvalinate-1, tau-fluvalinate 2, transfluthrin					
		Carbamates Carbaryl, Carbofuran, 3-hydroxy carbofuran, Carbosulphan, Dazomet, Fenobucarb, Indoxacarl Thiodicarb Methomyl, Bendiocar Iprovalicarb, Benfuracarb, Benthiocarb					
		Triazoles Bitertanol, Flusilazole, Hexaconazole, Myclobutanil, Penconazole, Paclobutrazole, Propiconazole, Tebuconazole,					

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		Tridemefon, Triadimenol, Difenconazole, Carbendazim, Benomyl, Thiabendazole, Thiophenate Methyl	RAL/FFV-PR/ 3,4,6,7,10,11,13,14 Issue no. 8, Jul 2014	-	.01 mg/kg g/kg to 10 mg/kg	
		Dithiocarbamtes as CS2 (Ferbam, Maneb, Nabam, Mancozeb, Thiram, Zineb, Ziram, Propineb, Metiram)	IS 13832-1993 AOAC 19 th Ed. 2012		.01 mg/kg g/kg to 10 mg/kg	
		Triazines Atrazine, Simazine, flufenzin Acylamino Acid Fungicides Metalaxyl and metalaxyl-M, Benalxyl and Benalxyl-M, Mefenoxam, Oxycarboxin, Propani Pthalimide Captafol, Captan Imidazole Iprodion, Fenamidone, Famoxadone, Nicotinoids Acetamiprid, Clothianidin, Imidacloprid, Thiacloprid, Thiamethoxam, Dinitrophenol Dinocap and its isomer as methyl dinocap Cymoxanil, Dimethomorph, Buprofezin, Cartap Hydrochloride, Emamectin	RAL/FFV-PR/ 3,4,6,7,10,11,13,14 Issue no. 8, Jul 2014		.01 mg/kg g/kg to 10 mg/kg	

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	benzoate, Spinosad (Sum of Spinosad A & B), Abamectin, Avermactin B1a, Avermactin B1b and delta-8,9 isomer, Diafenthiuron, Tridemorph, Diuron, 3,4-Dichloroaniline Substituted Thiourea Iodosulphuron Methyl, Linuron, AMPA, NAG, Metam, Lufenuron, Pencycuron, Strobilurin Azoxystrobin, Flufenoxuron, Oxyfluorfen, Fenpyroximate, Miscellenous pesticides Chlormequat Chloride, Propargite, Homobrassinolides, Diquat, Dithianon, Dodine, Diflubenzuron, Trifloxystrobin, Pyraclostrobin, Kresoxim- Methyl, cis - 1,2,3-6 Terahydrophthalimide, Pendimethalin, Trifluralin, Azadirachtin, Bifenazate, Fenazaquin, Flubendiamide, Forchlorfenuron, Gibberellic acid, Hexythiazox, Hydrogen cyanamide, Isoprothiolane, Mandipropamid, Mepiquat	RAL/FFV-PR/ 3,4,6,7,10,11,13,14 Issue no. 8, Jul 2014		0.01 mg/kg Ig/kg to 10 mg/kg

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		chloride, Metribuzin, Milbectin (sum of MA4 & 8, 9Z-MA4 isomers), Oxadiazon, Paraquat, Propargite, Pyriproxyfen, Spiromesifen, Trichlorfon, Tricyclazole, Uracil, Fosetyl-al, Imazalil, Aldicarb, Propoxur, Procymidon, Vinclozolin, Malaoxane, Methyl paraoxane, 2,4 D, Butachlor, Carboxin, Flufenacet, Metolachlor, Novaluron, 1-naphthyl acetic acid, 6-benzyl adenine, Chlorfenapyr, Tetraconazole, Chlorantraniliprole Isoproturon, Alachlor, Ethylene thiourea, Sulphur, Copper oxy chloride, Fipronil, Fipronil Sulfone	RAL/FFV-PR/ 3,4,6,7,10,11,13,14 Issue no. 8, Jul 2014		.01 mg/kg g/kg to 10 mg/kg ng/kg		
3.	Canned & Processed Foods (Ready to eat food items, Dietary Foods,Supplemen- tary foods, Bakery & bakery products, Snacks and Instant Mixes, Processed foods Jams, Jellies, Pickles, Sauces & Concentrates)	Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomers (o,p, p,p, isomers of DDT, DDE, DDD), Dicofol, Dieldrin, Endrin, Endosulphan, Lindane, BCH & its isomers (Alpha, Beta Delta HCH), Alpha Endosulphan, Beta Endosulphan, Endosulphan sulphate, Heptachlor	RAL/CHE-PR/1, RAL/CHE-PR/2 RAL/CHE-PR/8 Issue no. 4, Sep 2012		.01 mg/kg g/kg to 10 mg/kg		

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	Organophosphorus pesticides Acephate, Azinphos-methyl, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Fenthion, Malathion, Malaoxan, Monocrotophos, Omethoate, Oxydemeton-methyl, Parathion Ethyl, Parathion Methyl, Quinalphos, Triazophos	RAL/CHE-PR/1, RAL/CHE-PR/2 RAL/CHE-PR/8 Issue no. 4, Sep 2012		01 mg/kg g/kg to 10 mg/kg		
	Synthetic pyrethoids Cyfluthrin-(all isomers), Lambda Cyhalothrin, Cypermethrin (all isomers), Deltamethrin, Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers) Ethofenprox Carbamates Carbaryl, Carbofuran, Indoxacarb, Iprovalicarb,					
	Triazoles Flusilazole, Hexaconazole, Myclobutanil, Penconazole, Propiconazole, Tebuconazole, Difenconazole Acylamino Acid Fungicides Metalaxyl and metalaxyl-M, Benalxyl and Benalxyl-M, Mefenoxam, Fenamidone,					

Laboratory		•	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra			
Acc	reditation Standar	d ISO/IEC 17025: 2005				
Disc	cipline	Chemical Testing		Issue Date	e 15.09.2014	
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		ge of Testing / its of Detection	
		Thiacloprid, Thiamethoxam Miscellenous pesticides Tridemefon, Triadimenol, Carbendazim, Fenpyroximate, Chlormequat Chloride, Trifloxystrobin, Pyraclostrobin, Kresoxim-Methyl, Tetraconazole, Isoproturon	RAL/CHE-PR/1, RAL/CHE-PR/2 RAL/CHE-PR/8 Issue no. 4, Sep 2012		0.01 mg/kg mg/kg to 10 mg/kg	
4	Fish & Sea Foods Products, Meat, Poultry & Poultry Products	Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomers (o,p, p,p, isomers of DDT, DDE, DDD), Dicofol, Dieldrin, Endrin, Endosulphan, Lindane, BCH & its isomers (Alpha, Beta Delta HCH), Alpha Endosulphan, Beta Endosulphan, Endosulphan sulphate, Heptachlor, Heptachlor Epoxide, Organophosphorus pesticides Acephate, Azinphos-methyl, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Etrimphos, Iprobenphos, Malathion, Malaoxan, Methamidophos, Monocrotophos, Omethoate, Parathion Ethyl, Parathion Methyl, Paraxone methyl,- Profenophos, Phorate,	RAL/CHE-PR/4 RAL/CHE-PR/5 Issue no. 4, Sep 2012		0.01 mg/kg mg/kg to 10 mg/kg	

Laboratory	Reliable Analytical Lab Indian Corpn Complex	oratories Private Limite , Mankoli, Bhivandi, Tha		-
Accreditation Standard	ISO/IEC 17025: 2005			
Discipline	Chemical Testing		Issue Date	15.09.2014
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S.No. Product / S Material of Test	pecific Test Performed	Test Method Specificati against which tests are performed		e of Testing / s of Detection
St PP M S S C C C D C C D C C C C C C C C C C C	horate sulphone, phorate ilphoxide, Phosalone, hosphamidon, Pirimiphos iethyl, Quinalphos, Triazophos, ynthetic Pyrethroids yfluthrin (all isomers), Lambda yhalothrin, Cypermethrin, eltamethrin, Fenvalerate Sum of RR, SS, RS and SR omers), Permethrin (all omers), Ethofenprox arbamates arbaryl, Carbofuran, idoxacarb, Iprovalicarb, lethomyl, Thiodicarb, riazoles itertanol, Flusilazole, exaconazole, Myclobutanil riazines trazine, Simazine, cylamino Acid Fingicides letalaxyl and metalaxyl-M, endiocarb, Benfuracarb, enamidone trobilurin zoxystrobin, Flufenoxuron, liscellenous pesticides ropargite Oxyfluorfen, enpyroximate, Chlormequat hloride, Trifloxystrobin, yraclostrobin, Kresoxim-	RAL/CHE-PR/4 RAL/CHE-PR/5 Issue no. 4, Sep 2012		0.01 mg/kg g/kg to 10 mg/kg

Laboratory			Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra			
Acc	reditation Standar	d ISO/IEC 17025: 2005				
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection	
		Methyl, Pendimethalin, Trifluralin, Isoprothiolane, Propargite, Pyriproxyfen, Spiromesifen, Malaoxane, Methyl paraoxane, 2,4 D, Butachlor, Carboxin, Isoproturon, Alachlor	RAL/CHE-PR/4 RAL/CHE-PR/5 Issue no. 4, Sep 2012	0.01 1	ng/kg ng/kg to 10 mg/kg	
5.	Honey and honey products	Organochlorine pesticides Chlorbenzilate Hexachlorobenzene pp-DDT, op-DDT, op-DDE, pp- DDE, op-DDD, pp-DDD alpha-HCH, beta-HCH, Lindane Vinclozoline Aldrin, Dieldrin, Chlordane Endosulphan, Heptachlor, Heptachlor epoxide Endrin Synthetic Pyrethoids Cyfluthrin Cypermethrin Deltamethrin Cyhalothrin Permethrin Fenvalerate Fluvalinate Cyhalothrin Pyrethrin	RAL/CHE-PR/8 Issue no. 4, Sep 2012		0.01 mg/kg ng/kg to 10 mg/kg	

			Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra			
Acc	reditation Standar	d ISO/IEC 17025: 2005				
Discipline Certificate Number		Chemical Testing		Issue Date	15.09.2014	
		T-0353		Valid Until	14.09.2016	
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / ts of Detection	
		Organophosphorus pesticides Chinomethionat Bromopropylate Coumaphos Malathion Phosalone Carbofuran Propoxur Carbaryl Cymiazole Amitraz Methoxychlor	RAL/CHE-PR/8 Issue no. 4, Sep 2012		0.01 mg/kg ng/kg to 10 mg/kg	
6.	Milk & Dairy Prodoucts (Milk, cheese and Milk Powder)	Organochlorine pesticides Endosulphan, Chlordane, DDT (All isomers), Lindane, HCH (All isomers) Heptachlor, Methoxychlor Aldrin, Dieldrin Organophosphorus pesticides Dichlorovos, Ethion, Diazinon, Malathion Methyl Parathion, Phosalone	RAL/CHE-PR/2 Issue no. 4, Sep 2012		0.01 mg/kg ng/kg to 10 mg/kg	
7.	Non alcoholic beverages, Juices, Pulps	Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomers (o,p, p,p, isomers of DDT, DDE, DDD), Dicofol, Dieldrin, Endrin, Endosulphan, Lindane, BCH & its isomers (Alpha, Beta Delta	RAL/CHE-PR/2,8 Issue no. 4, Sep 2012	-	0.01 mg/kg 0.01 g to 10 mg/kg	

Laboratory	-	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Accreditation Standard	ISO/IEC 17025: 2005					
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	 HCH), Alpha Endosulphan, Beta Endosulphan, Endosulphan sulphate, Heptachlor, Heptachlor Epoxide, Organophosphorus pesticides Acephate, Azinphos-methyl, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Etrimphos, Iprobenphos, Malathion, Malaoxan, Methamidophos, Monocrotophos, Omethoate, Parathion Ethyl, Parathion Methyl, Paraxone methyl,- Profenophos, Phorate, Phorate sulphone, phorate sulphoxide, Phosalone, Phosphamidon, Pirimiphos methyl, Quinalphos, Triazophos Synthetic Pyrethoids Cyfluthrin (all isomers), Lambda Cyhalothrin, Cypermethrin, Deltamethrin, Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers), Ethofenprox Carbamates Carbaryl, Carbofuran, Indoxacarb, Iprovalicarb, Methomyl, Thiodicarb, Bitertanol, Flusilazole, 	RAL/CHE-PR/2,8 Issue no. 4, Sep 2012	-	01 mg/kg 0.01 to 10 mg/kg		

Laboratory			Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Accreditation Standard ISO/IEC 17025: 2005		95					
Disc	cipline	Chemical Testing		Issue Date	15.09.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificat against which tests are performed		e of Testing / s of Detection		
		Hexaconazole, Myclobutanil Triazines Atrazine, Simazine, Acylamino Acid Fungicides Metalaxyl and metalaxyl-M, Bendiocarb, Benfuracarb, Fenamidone Azoxystrobin, Flufenoxuron, Miscellenous pesticides Propargite Oxyfluorfen, Fenpyroximate, Chlormequat Chloride, Trifloxystrobin, Pyraclostrobin, Kresoxim- Methyl, Pendimethalin, Trifluralin, Isoprothiolane, Propargite, Pyriproxyfen, Spiromesifen, Malaoxane, Methyl paraoxane, 2,4 D, Butachlor, Carboxin, Isoprotu Alachlor	Issue no. 4, Sep 2012		.01 mg/kg 0.01 to 10 mg/kg		
8.	Herbs, Spices, Condiments & its products Tea, Coffee & Cocoa Products	Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomer (o,p, p,p, isomers of DDT, DI DDD), Dicofol, Dieldrin, End Endosulphan, Lindane, BCH its isomers (Alpha, Beta Delta HCH), Alpha Endosulphan, E Endosulphan, Endosulphan sulphate, Heptachlor,	DE, Issue no. 4, Sep 2012 Irin, & a		.01 mg/kg g/kg to 10 mg/kg		

Laboratory	-	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	Organophsophorus pesticides Acephate, Azinphos-methyl, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Fenthion, Malathion, Malaoxan, Monocrotophos, Omethoate, Oxydemeton-methyl, Parathion Ethyl, Parathion Methyl, Quinalphos, Triazophos, Synthetic Pyrethoids Cyfluthrin-(all isomers), Lambda Cyhalothrin, Cypermethrin (all isomers), Deltamethrin, Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers), Ethofenprox Carbamates Carbaryl, Carbofuran, Indoxacarb, Iprovalicarb, Triazoles Flusilazole, Hexaconazole, Myclobutanil, Penconazole, Tebuconazole, Acylamino Acid Fungicides Metalaxyl and metalaxyl-M, Benalxyl and Benalxyl-M, Mefenoxam, Fenamidone	RAL/CHE-PR/1, RAL/CHE-PR/2 RAL/CHE-PR/8 Issue no. 4, Sep 2012		.01 mg/kg g/kg to 10 mg/kg		

Laboratory			Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Accreditation Standard		d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005				
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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		
		Miscellenous pesticides Tridemefon, Triadimenol, Difenconazole, Carbendazim, , Thiacloprid, Thiamethoxam Fenpyroximate, Chlormequat Chloride, Trifloxystrobin, Pyraclostrobin, Kresoxim- Methyl, , Isoproturon	RAL/CHE-PR/1, RAL/CHE-PR/2 RAL/CHE-PR/8 Issue no. 4, Sep 2012		.01 mg/kg g/kg to 10 mg/kg		
9.	Cereals, pulses, spices, Dry fruits, Oilseeds, nut and nut products, Processed food items, Animal feed stuffs	Aflatoxins and Contaminants, Colourants B1 B2 G1 G2	LC/MS/MS (RAL/CHE-FOOD/2) Based on AOAC 985.17, 19 th Ed. 2012 HPLC FLD (RAL/CHE-FOOD/2A) Issue No.4, March 2013 Based on AOAC 991.31, 994. 19 th Ed. 2012	0.5 µg/	LOQ 0.5 µg/kg 0.5 µg/kg to 1 mg/kg		
10.	Milk and Milk products	M1	LC/MS/MS (RAL/CHE-AFLA/2B) Issue 4, March 2013 based on AOAC 2000.08, 19th Ed. 201	0.05 μg	05 μg/kg z/kg to 1 mg/kg		

Laboratory			Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005				
Disc	cipline	Chemical Testing	Chemical Testing		15.09.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
11.	Spices, and Condiments, pickles, ready to eat products and processed food items	Sudan I, II, III, IV Sudan Red, Para Red	LC/MS/MS (RAL/CHE-SPICES/1) Issue 5, Jan 2014 Based on Indian Pharmacopi	10 µg/l	0 μg/kg kg to 1 mg/kg		
12.	Cereals, pulses, spices, Dry fruits, Seeds and seed products, nut and nut products, Animal feed stuffs	Ochratoxins	LC/MS/MS (RAL/CHE-AFLA/2) Based on AOAC 981.44, 2000.03, 19th Ed. 2012 Issue 4, March 2013		LOQ 0.5 μg/kg 0.5 μg/kg to 10 mg/kg		
13.	Milk & dairy products, Cocoa based products	Melamine	LC/MS/MS (RAL/CHE-PR/11) Issue 3, Jan 2013 based on Agilent notes	-	.1 mg/kg 10 mg/kg		
14.	Marine products, Fish and fishery products, Meat and meat products	Oxolinic acid	LC-MS-MS RAL/ANTIBIOTICS/6 Issue 4, Jan 2012 based on Agilent notes		LOQ 25 µg/kg 25 µg/kg to 10 mg/kg		

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Accreditation Standard	ISO/IEC 17025: 2005				
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	

METALS	AND	HEAVY	METALS

1.	Cereals, Pulses, Grains, seeds, Husks Flours, oilseeds, nut & nut products, Dry fruits, Stimulant foods & Nutritional	Copper, Iron, Zinc, Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony, Manganese	RAL/CHE-FOOD/18 Issue no. 4, Jan 2014 based on AOAC 19 th Ed. 2012 and DGHS Lab Manual-9 AAS, AOAC 19 th Ed. 2012 999.10, 999.11, 977.15, 963.21	LOQ 0.01 mg/kg 0.01 mg/kg to 50 mg/kg
	products, health supporting powders, whey powders, Spices & spices products, condiments, Honey and honey products	Copper, Iron, Zinc, Lead, Mercury, Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese, Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium	ICP-MS RAL/CHE-FOOD/215A Issue no. 2, Feb 2013 based on AOAC 993.14, 19 th Ed. 2012	LOQ 0.005 mg/kg 0.005 mg/kg to 50 mg/kg
2.	Fruits and vegetables	Copper, Iron, Zinc, Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony, Manganese	RAL/CHE-FOOD/17 (Issue no. 4, Jan 2014 based on AOAC 19 th Ed. 2012 and DGHS Manual-9) AAS, AOAC 19 th Ed. 2012 999.10, 999.11, 977.15, 963.21	LOQ 0.01 mg/kg 0.01 mg/kg to 50 mg/kg

Laboratory			Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		e of Testing / s of Detection		
	Fruits and	Copper, Iron, Zinc, Lead,	ICP-MS	LOQ 0.	005 mg/kg		
vege	Ba Se	Mercury, Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese,	RAL/CHE-FOOD/215A (Issue no. 2, Feb 2013 based of AOAC 993.14, 19 th Ed. 2012		ng/kg to 50 mg/kg		
		Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium					
3.	Ready to eat food	Copper, Iron, Zinc,	RAL/CHE-FOOD/19		01 mg/kg		
	items, Jams, Jellies, Pickles, Sauces & Concentrates, Bakery and bakery	Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony,	(Issue no. 4, Jan 2014 based of AOAC 19th Ed. 2012 and DO Manual-9)		g/kg to 50 mg/kg		
	products, Sugar & sugar products, Snacks and Instant	Manganese	AAS, AOAC 19 th Ed. 2012 999.10, 999.11, 977.15, 963.2	21			
	Mixes, Juices, Pulps	Copper, Iron, Zinc, Lead, Mercury,	ICP-MS RAL/CHE-FOOD/215A	LOQ 0.	005 mg/kg		
	i uips	Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese,	(Issue no. 2, Feb 2013 based of AOAC 993.14, 19 th Ed. 2012		ng/kg to 50 mg/kg		
		Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium					

Labo	oratory		Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005	SO/IEC 17025: 2005				
Disc	ipline	Chemical Testing	I	lssue Da	te 15.09.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / mits of Detection		
4.	Milk and Dairy products, Egg and egg products	Copper, Iron, Zinc, Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony, Manganese	RAL/CHE-FOOD/20 (Issue no. 4, Jan 2014 based AOAC 19 th Ed. 2012 and DC Manual-9) AAS, AOAC 19 th Ed. 2012 999.10, 999.11, 977.15, 963.	on GHS 0.0	Q 0.01 mg/kg 1 mg/kg to 50 mg/kg		
		Copper, Iron, Zinc, Lead, Mercury, Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese, Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium	ICP-MS RAL/CHE-FOOD/215A (Issue no. 2, Feb 2013 based AOAC 19 th Ed. 2012)		Q 0.005 mg/kg 05 mg/kg to 50 mg/kg		
5.	Fish & Sea Foods Products, Meat & Meat Products, Poultry & Poultry Products	Copper, Iron, Zinc, Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony, Manganese	Issue no. 6, Sept 2014 based	on 0.0	Q 0.01 mg/kg 1 mg/kg to 50 mg/kg		
		Copper, Iron, Zinc, Lead, Mercury, Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese, Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium	ICP-MS RAL/CHE-FOOD/215A (Issue no. 2, Feb 2013 based AOAC 993.14, 19 th Ed. 201	on 0.0	Q 0.005 mg/kg 05 mg/kg to 50 mg/kg		

Laboratory		-	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Accı	reditation Standar	d ISO/IEC 17025: 2005					
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		ge of Testing / ts of Detection		
6.	Alcoholic and non alcoholic beverages, Juices, Pulps	Copper, Iron, Zinc, Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony, Manganese	RAL/CHE-FOOD/22A Issue no. 4, Jan 2014 based o AOAC 19 th Ed. 2012 and DO Manual-9) AAS, AOAC 19 th Ed. 2012 999.10, 999.11, 977.15, 963.2	n SHS 0.01 r	0.01 mg/kg ng/kg to 50 mg/kg		
		Copper, Iron, Zinc, Lead, Mercury, Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese, Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium	ICP-MS RAL/CHE-FOOD/215A Issue no. 2, Feb 2013 based of AOAC 993.14, 19 th Ed. 2012	on 0.005	0.005 mg/kg mg/kg to 50 mg/kg		
7.	Edible Oils & other oils, Soya lecithin, Soya TVP, Granules, Soil & sediments	Copper, Iron, Zinc, Lead, Mercury, Silver, Arsenic, Cadmium, Nickel, Chromium, Tin, Selenium, Antimony, Manganese	RAL/CHE-FOOD/21 Issue no. 4, Jan 2014 based o AOAC 19 th Ed. 2012 and DGHS Lab Manual-9 AAS, AOAC 19 th Ed. 2012 999.10, 999.11, 977.15, 963.2	n 0.01 r	0.01 mg/kg ng/kg to 50 mg/kg		
		Copper, Iron, Zinc,Lead, Mercury, Arsenic, Cadmium, Barium, Nickel, Chromium, Tin, Selenium, Antimony, Silver, Manganese, Aluminium, Boron, Berillium, Bismuth, Cobalt, Gallium, Lithium, Strontium, tellurium, Thallium, Indium	ICP-MS RAL/CHE-FOOD/215A Issue no. 2, Feb 2013 based of AOAC 993.14, 19 th Ed. 2012	on 0.005	0.005 mg/kg mg/kg to 50 mg/kg		

Labo	oratory	•	boratories Private Limited k, Mankoli, Bhivandi, Than	•	•
Acci	reditation Standar	rd ISO/IEC 17025: 2005			
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
		ANTIBIOTIC RESIDUE			
1.	Meat And Meat Products, Poultry And Poultry Products , Animal Feed Stuffs, Egg And Egg Products,	<u>Nitrofurans & its Metabolites</u> AOZ, AMOZ, AHD, SEM Furazolidone, Furaltadone, Nitrofurazone, Nitrofuration	LC/MS/MS (RAL/CHE-ANTIBIO/1, 13) Issue no. 4, Jun 2012 & Issue no. 2, Jun 2014 Based on AOAC 19 th Ed. 2012	0.5 µg/	.5 μg/kg kg to 100 μg/kg
	Fish And Marine Products, Frozen Marine Products, Honey and honey products	Tetracyclins & its isomers Oxytetracylin & 4-epiisomer Tetracyline Hydrochloride & 4-epiisomer	LC/MS/MS (RAL/CHE-ANTIBIO/5) Issue no. 4, Jun 2012 Based or AOAC 19 th Ed. 2012	-	5 μg/kg kg to 1000 μg/kg
		Doxycyclin Chlortetracyclin & 4-epiisomer Chloramphenicol	LC/MS/MS (RAL/CHE-ANTIBIO/2) Issue no. 4, Jun 2012 Based or AOAC 19 th Ed. 2012	0.22 µg	.22 μg/kg g/kg to 10 μg/kg
		Sulphonamides Sulfadiazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethoxypyridazine sulphanilamide Sulfamethoxazole Sulfathiazol Sulfadimidine Sulfadoxine Sulfathiazole Trimethoprim	LC/MS/MS (RAL/CHE-ANTIBIO/3) Issue no. 4 Jun 2012 Based on AOAC 19 th Ed. 2012	10 µg/l	0 μg/kg ‹g to 1000 μg/kg

Lab	oratory		Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		e of Testing / s of Detection		
2.	Milk and milk powder	Nitrofurans & its Metabolites AOZ, AMOZ, AHD, SEM Furazolidone, Furaltadone, Nitrofurazone, Nitrofuration	LC/MS/MS (RAL/CHE-ANTIBIO/1, 13) Issue no. 4 Jun 2012 & Issue 2 Jun 2014		0.5 μg/kg /kg to 100 μg/kg		
		Tetracyclins & its isomers Oxytetracylin & 4-epiisomer Tetracyline Hydrochloride & 4-epiisomer Doxycyclin Chlortetracyclin & 4-epiisomer	LC/MS/MS (RAL/CHE-ANTIBIO/14) Issue no. 2 Jun 2012		5 μg/kg kg to 1000 μg/kg		
		Chloramphenicol	LC/MS/MS (RAL/CHE-ANTIBIO/9) Issue no. 2 Jun 2012	-	0.22 μg/kg g/kg to 10 μg/kg		
		Sulphonamides Sulfadiazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethoxypyridazine sulphanilamide Sulfamethoxazole Sulfathiazol Sulfadimidine Sulfadoxine Sulfathiazole Trimethoprim	LC/MS/MS (RAL/CHE-ANTIBIO/10) Issue no. 2 Jun 2012		0 μg/kg kg to 1000 μg/kg		

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		Ro	roimidazoles nidalzole tronidazole	LC/MS/MS (RAL/CHE-ANTIBIO/17) Issue no. 2, Jun 2012		LOQ 1. 1.0 ug/k	0 μg/kg sg to 1000 μg/kg
		Ery Spi	crolides thromycin ramycin micosin	LC/MS/MS (RAL/CHE-ANTIBIO/16) Issue no. 2, Jun 2012		LOQ 10 10 to 10) μg/kg)00 μg/kg
		Tyl	osin amphenicol			LOQ 5 5 to 100	μg/kg)0 μg/kg
			nino Glycosides hydrostreptomycin	LC/MS/MS (RAL/CHE-ANTIBIO/11)		LOQ 10	00 µg/kg
		Ger Kar	ntamycin namycin ectinomycin	Issue no. 2 Jun 2012		100 to 5	5000 μg/kg
		Ive	thelmintics rmectin	LC/MS/MS (RAL/CHE-ANTIBIO/12)		LOQ 1	
			bendazole abendazole	Issue no. 2 Jun 2012		1 to 100)0 μg/kg
3.	Meat And Meat Products, Fresh Poultry And	Dy Lei	es 100 malachite green	RAL/CHE-ANTIBIO/8 Issue no. 2 Jun 2012 Based on AOAC 19th Ed. 2	2012	LOQ 1 1 to 100	
	Poultry Meat Products, Egg And	Ma	lachite Green			LOQ 1 1 to 100	
	Egg Products, Fish And Other Marine A Products, Frozen Marine Products	All	ura Red			LOQ 10 10 to 10) μg/kg)00 μg/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed	on		e of Testing / of Detection	
		Crystal Voilet	RAL/CHE-ANTIBIO/8 Issue no. 2 Jun 2012 Based on AOAC 19th Ed. 2	LOQ 10 µg/kg 10 to 1000 µg/kg			
		Histamine			LOQ 20 mg/kg 20 to 200 mg/kg		
III.	POLLUTION & EN	VIRONMENT					
1.	Soil, Sludge & sediments	Organochlorine pesticides Aldrin, Chlorothalonil, Chlordane, DDT & its isomers (o,p, p,p, isomers of DDT, DDE, DDD), Dicofol, Dieldrin, Endrin, Endosulphan, Lindane, BCH & its isomers (Alpha, Beta Delta HCH), Alpha Endosulphan, Beta Endosulphan, Endosulphan sulphate, Heptachlor, Organophsophorus pesticides Acephate, Azinphos-methyl, Chlorfenvinphos, Chlorpyriphos, Chlorpyriphos methyl, Diazinon, Dichlorvos, Dimethoate, Ethion, Fenitrothion, Fenthion, Malathion, Malaoxan, Monocrotophos, Omethoate, Oxydemeton-methyl, Parathion Ethyl, Parathion Methyl, Quinalphos, Triazophos, Synthetic Pyrethoids Cyfluthrin-(all isomers), Lambda Cyhalothrin,	RAL/CHE-PR/3, Issue no. 4, Sep 2012			01 mg/kg /kg to 10 mg/kg	

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	Cypermethrin (all isomers), Deltamethrin, Fenvalerate (Sum of RR, SS, RS and SR isomers), Permethrin (all isomers), Ethofenprox Carbamates Carbaryl, Carbofuran, Indoxacarb, Iprovalicarb, Triazoles Flusilazole, Hexaconazole, Myclobutanil, Penconazole, Tetraconazole Propiconazole, Tebuconazole, Acylamino Acid Fungicides Metalaxyl and metalaxyl-M, Benalxyl and Benalxyl-M, Benalxyl and Benalxyl-M, Mefenoxam, Fenamidone Miscellenous pesticides Tridemefon, Triadimenol, Difenconazole, Carbendazim, , Thiacloprid, Thiamethoxam Fenpyroximate, Chlormequat Chloride, Trifloxystrobin, Pyraclostrobin, Kresoxim- Methyl, , Isoproturon	RAL/CHE-PR/3, Issue no. 4, Sep 2012		01 mg/kg g/kg to 10 mg/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

IV. PLASTICS AND RESINS

1.	Container for Packing of Natural Mineral Water and	Migration Test	IS 9845-1998 2 nd Rev.	0 to 100 mg/l 0 to 100 mg/dm ²
	Packaged Drinking Water (Cups,	Colour Migration	IS 9845-1998 2 nd Rev.	Visual
	glasses, bottles & Jars)	Material	RAL/WI/19/01.5 (FTIR)	Qualitative
2.	Polyethylene Films For Natural	Overall Migration	IS 9845-1998 2nd Rev.	0 to 100 mg/l 0 to 100 mg/dm ²
	Mineral Water & Packaged Drinking Water	Colour Migration	IS 9845-1998 2nd Rev	Visual
		Material	RAL/WI/19/01.5 (FTIR)	Qualitative
3.	Caps, Aluminium foils, laminates of Packing materials	Overall Migration of constituents	IS:9845-1998 2nd Rev.	0 to 100 mg/l 0 to 100 mg/dm ²
		Colour Migration	IS:9845:1998 2nd Rev	Visual
4.	Packing material for food and processed food items, laminates, foils	Overall Migration of constituents	IS:9845:1998 2nd Rev.	0 to 100 mg/l 0 to 100 mg/dm ²
		Colour Migration	IS:9845:1998 2nd Rev	Visual

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5.	High Density Polyethylene Pipes for Water supply	Colour	IS:4984:1995, AMND 6 cl.4	Visual			
		Carbon Black Content	IS 2530:1963, cl.10 & IS 7328 1992, Amnd 2 Anne: IS 4984 Cl.No.8.6	0.1 to 5 x B,	5%		
		Carbon Black Dispersion	IS 2530:1963	Visual			
6.	Unplasticized PVC Pies for Potable Water Supplies	Effect on water Lead, Tin, Cadmium, Mercury, di-n-octyl- tin-s-s-bis iso octyl mercapto acetate, Butyl state	IS 12235:2004, (P-) 4,10,11	1 to 10	0 mg/l		
		Sulphated Ash Content	IS 4985:2000 AMND 3 Annex B	0.1% to	o 20%		
7.	Plastic Feeding bottles	Overall Migration of constituents	IS 9845-1998 2nd Rev.	0 to 10 0 to 10	0 mg/l 0 mg/dm ²		
		Colour Migration	IS 9845-1998 2nd Rev	Visual			
		Lead, Arsenic, Mercury, Cadmium, Zinc, Selenium, Barium, Chromium, Antimony,	IS 9833:1981, Amnd 1 AAS, AOAC 19 TH ED. 999.1 999.11, 977.15	5 mg/l 0,	to 2000 mg/l		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
v.	ORES AND MINE	RALS					
1.	Iron Ore	Moisture	IS:1493 (P-1)-1981	1% to 1	10 %		
		Ash	IS:1493 (P-1)-1981	1% to 1	10 %		
		Volatile Matter	IS:1493 (P-1)-1981	1% to 1	10 %		
		Iron Content, Ferric Oxide as Fe_2O_3	IS:1493 (P-1)-1981	10% to	90%		
		Silica as SiO ₂	IS:1493 (P-1)-1981	1% to 1	10 %		
		Alumina as Al ₂ O ₃	IS:1493 (P-1)-1981	1% to 7	7%		
		Phosphorus as P	IS:1493 (P-1)-1981	0.02%	to 0.1%		
		Sulphur as S	IS:1493 (P-1)-1981	0.005%	b to 0.05%		
VI.	COAL, COKE & O	THER SOLID FUEL					
1.	Coal, Coke	Total Moisture	IS:1350 (P-1) 1984 RA 2001 Amnd 1	5% to 5	50%		
		Inherent Moisture	IS:1350 (P-1) 1984 RA 2001 Amnd 1	1% to 2	20%		
		Ash content	IS:1350 (P-1) 1984 RA 2001 Amnd 1	5% to 5	50%		

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	Coal, Coke	Volatile Matter	IS:1350 (P-1) 1984 RA 2001 Amnd 1		oal 20% to 50% oke 0.05% to 5%		
		Fixed Carbon	IS:1350 (P-1) 1984 RA 2001 Amnd 1	25 %	to 90%		
		Sulphur as S	IS:1350 (P-3) 1969 RA 2000) 0.1%	to 10.0%		
VII.	SOAPS, DETERGEN	NTS AND TOILETRIES					
1.	Soaps Such as transparent soaps bathing soap, liquid toilet soap and soap products	Total fatty matter	IS 286:1978 (RA 2008)	1 to 8	0%		
		Rosin acid	IS 286:1978 (RA 2008)	1 to 9	%		
		Free Caustic alkalie	IS 286:1978 (RA 2008) IS 4199:2001 Annex A	0.05 t	o 0.2%		
		Matter insoluble in alcohol	IS 286:1978 (RA 2008)	1 to 8	%		
		Free Carbonated Alkalie	IS 286:1978 (RA 2008)	0.5 to	2%		
		Moisture and volatile matter	IS 286:1978 (RA 2008)	1 to 8	0%		
		Matter insoluble in water	IS 286:1978 (RA 2008)	1 to 8	%		
		Chloride content	IS 286:1978 (RA 2008)	1 to 5	%		
		Unsaponified and unsaponifiable matter	IS 286:1978 (RA 2008)	0.1 to	1%		

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6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Detergents and detergent based	Active matter	IS 4955:2001 (RA 2006)	1 to 80%
	products	Total alkalinity	IS 4955:2001 (RA 2006)	1 to 35%
		Sodium tripolyphosphate	IS 4955:2001 (RA 2006)	1 to 15%
		Total phosphates as P2O5	IS 4955:2001 (RA 2006)	1 to 15%
VIII.	COSMETICS & ESS	SENTIAL OILS		
1.	Shampoos Soap based & Detergent based	Description/ Physical Appearance	IS 7669:1990 AMD 3	Qualitative
		Total Fatty Matter	IS 286:1978 RA 2006	1 to 80%
		Matter Insoluble in alcohol	IS 286:1978 RA 2008	1 to 8%
		Free Caustic alkali (as KOH)	IS 286:1978 RA 2008	0.05 to 0.2%
		Physical Characteristics	IS 7884:2004 RA 2009	Qualitative
		Volatile matter	IS 7884:2004 RA 2009	1 to 95%
		pH at 27 °C	IS 7884:2004 RA 2009	1 to 14
		Inorganic salts	IS 7884:2004 RA 2009	1 to 10%
2.	Shaving Creams	Consistency	IS 9740:1981 Amnd 5 (RA 2001)	Qualitative
		Homogeneity	IS 9740:1981 Amnd 5 (RA 2001)	Qualitative

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6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Shaving Creams	Stability	IS 9740:1981 Amnd 5 (RA 2001)	Qualitative
		Effect of container	IS 9740:1981 Amnd 5 (RA 2001)	Qualitative
		Total Fatty substance	IS 9740:1981 Amnd 5 (RA 2001)	1 to 80%
		Water Content	IS 9740:1981 Amnd 5 (RA 2001)	1 to 80%
		Lathering (foaming) power	IS 9740:1981 Amnd 5 (RA 2001)	0 to 250 ml
		Free Caustic alkali	IS 9740:1981 Amnd 5 (RA 2001)	To pass the test
3.	Lipstick	Description/ Physical Appearance	IS 9875:1990 (RA 2000) Amnd 5	Qualitative
		Softening point	IS 9875:1990 (RA 2000) Amnd 5	Ambient to 100 °C
		Rancidity as peroxide number	IS 9875:1990 (RA 2000) Amnd 5	1 to 50 Meq/kg
		Freedom from grittiness	IS 9875:1990 (RA 2000) Amnd 5	Qualitative

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6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Talc	Description/Physical Appearance	IS 1462:1985 Amnd 4	Qualitative
		Fineness-Material retained on 150 micron, 90 micron IS sieve	IS 1462:1985 Amnd 4	0 to 10%
		рН	IS 1462:1985 Amnd 4	1 to 14
		Matter soluble in water	IS 1462:1985 Amnd 4	0.05 to 10%
		Magnesium	IS 1462:1985 Amnd 4	1 to 50%
		Bulk density	IS 1462:1985 Amnd 4	0.8 to 1.2 g/ml
		Loss on ignition	IS 1462:1985 Amnd 4	0.05 to 10%
		Carbonates	IS 1462:1985 Amnd 4	Qualitative
		Acid soluble iron	IS 1462:1985 Amnd 4	0.05 to 1%
		Water soluble iron salts	IS 1462:1985 Amnd 4	Qualitative
		Acid soluble matter	IS 1462:1985 Amnd 4	0.05 to 10%
5.	Tooth-Paste	Consistency	IS 6356:2001 (RA 2006)	Qualitative
		Homogeneity	IS 6356:2001 (RA 2006)	Qualitative
		Stability	IS 6356:2001 (RA 2006)	Qualitative
		Effect of container	IS 6356:2001 (RA 2006)	Qualitative

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	Tooth-Paste	Fineness	IS 6356:2001 (RA 2006)	0 to 10%
		рН	IS 6356:2001 (RA 2006)	1 to 14
		Hard and sharp-edged abrasive particles	IS 6356:2001 (RA 2006)	Absent
		Foaming powder	IS 6356:2001 (RA 2006)	0 to 250 ml
6.	Skin Cream	Description/ Physical Appearance	IS 6608:2004	Qualitative
		Thermal Stability	IS 6608:2004	Qualitative
		рН	IS 6608:2004	1 to 14
		Total fatty substance content	IS 6608:2004	1 to 80%
		Water content	IS 6608:2004	1 to 80%
7.	Hair Oils	Description/ Physical Appearance	IS 7123:1993 (RA 1998)Amnd 5	Qualitative
		Acid value	IS 7123:1993 (RA 1998) Amnd 5	0.1 to 5 mg of KOH/g
		Peroxide value	IS 7123:1993 (RA 1998) Amnd 5	0.1 to 10 Meq/kg

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
IX.	TEXTILE & TEXT	ILE AUXILIARIES					
1.	Textiles & Garments	Identification (Nature) of fibre present in the textile	IS 667:1981 AATCC 20: 2011	Qualita	ative		
		Blend Composition of different fibres present	IS 9889 -1988 (Silk & wool) IS 1889 -1979 ((P-) 4) Amendment 1 (Cotton+Viscose IS 6503 -1988 - Amendment 1 and IS 2005 -1988 Amendment 1 & (Nylon + Others) IS 2006 -1988 Amendment 1 & (Wool + Others) IS 3416-1988 (P-I) Amendmen 1 & 2 - (Polyester + Cotton) an (Polyester + Viscose) IS 3421-1988 - Amendment 1 (Acrylic + Others) - DMF method AATCC 20A: 2011 ISO 1833:2006/2007/2009	e) 2 2 2 2 t	o 100 %		
		Dimensional Stability (Relaxation Shrinkage)	IS: 2977-1989 - Amendment 1 (other than wool - woven & knitted) IS 665 -1989 (for fabrics containing wool) IS 10099:1982 ISO 7771:1985	(-) 50%	6 to (+) 30%		

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	Textiles & Garments	pH of aqueous extract	IS: 1390-1983 AATCC 81:2006 ISO 3071:2005 EN 1413 : 1998	1 to 14			
		Colour Fastness to Washing/ Laundering	IS/ISO 105 C 10:2006 AATCC 61:2010 ISO 105 C 10:2006 ISO 105 C 06:2010	Grade	l to 5		
		Colour Fastness to Rubbing/ Crocking	IS 766-1988 AATCC-8:2007 ISO 105 X 12:2001	Grade	1 to 5		
		Colour Fastness to Water	IS 767-1988 AATCC- 107: 2009 ISO 105 E 01:2013	Grade	1 to 5		
		Colour Fastness to Sea Water	IS 690-1988 AATCC-106: 2009 ISO 105 E 02:2013	Grade	1 to 5		
		Colour Fastness to Chlorinated pool water	ISO 105 E 03:2010	Grade	1 to 5		
		Colour Fastness to Perspiration	IS 971-1983 - Amendment 1 AATCC- 15:2009 ISO 105 E 04:2013	Grade	1 to 5		

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Textiles & Garments	Colour Fastness to Dry Cleaning	IS 4802-1988 AATCC- 132: 2009 ISO 105 D 01:2010	Grade 1	to 5		
	Colour Fastness to bleaching - Hypochlorite	ISO 105 N 01:1993	Grade 1	to 5		
	Colour Fastness to bleaching - Peroxide	ISO 105 N 02:1993 AATCC- 101:2009	Grade 1	to 5		
	Colour Fastness to Organic Solvent	IS 688-1988 ISO 105 X 05:1994	Grade 1	to 5		
	Colour Fastness to domestic and commercial laundering oxidative bleach response using a non phosphate reference detergent incorporating a low temperature leach activator	ISO 105 C 09: 2001 Amd-1:200)3 Grade 1	to 5		
	Colour Fastness to Phenolic Yellowing	ISO 105 X 18:2007	Grade 1	to 5		
	Colour Fastness to artificial Light (Xenon Lamp)	IS 2454:1985 - Amendment 1 AATCC-16.3:2012 ISO 105 B 02:2013 (E)	Grade 1 BWS R	to 5 ating 1 to 8		
	Test for Water Repellency - Spray test	IS 390:1975 AATCC 22: 2010 ISO 4920:2012	Qualita	tive		

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Textiles & Garments	Dimensional Stability to machine Washing/ Laundering ISO method	ISO 6330:2012 ISO 5077:2007 ISO 3759:2011	(-) 50%	o to (+) 30%	
	Dimensional Stability to machine Washing / Laundering AATCC method	AATCC 135: 2010 AATCC 150: 2010	(-) 50%	o to (+) 30%	
	Absorbency of Textiles.	AATCC 79:2010	1 to 60	0 seconds	
	Wettability	IS 2349:1963 - Amendment 1	1 to 60	0 seconds	
	Water soluble matter	IS 3456:1966	0.1% to) 30%	
	Bow and Skew and Spirality	ASTM D 3882-08 AATCC 179:2010 ISO 16322-2-2005	(-)20%	to (+)20%	
	Moisture Content	IS 199:1989	0.1% to	o 50%	
	Colour fastness to Saliva and Perspiration	DIN 53160:2010	Grade	1 to 5	
	Formaldehyde	ISO 14184- 1-2011 ISO 14184- 2-2011 AATCC 112: 2008 BSEN ISO 14184- 1-2011 BESN ISO 14184- 2-2011	10 to 10	0,000 mg/kg	
	Flammability	ASTM D 1230-2011 16 CFR 1610:2008	Flame s 0 to 5 n	spread time: nin	

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		METAL RESIDUE					
1.	Textiles & Garments and accessories	Total Lead Content in Surface Coating or paint	ASTM E 1645-01, ASTM E 1613-04	0.5 to	10000 mg/kg		
		Determination of Extractable Heavy Metals - Antimony, Arsenic, Lead, Cadmium, Mercury, Copper Chromium, Cobalt, Nickel, Zinc	EN-71 (P-3) 2013	0.5 to	10000 mg/kg		
		Determination of Soluble Heavy Metals Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	ASTM F963-11 (4.3.5 & 8.3	3) 0.5 to	10000 mg/kg		
		Determination of Migration of Heavy Metals Antimony, Arsenic, Barium, Cadmium Chromium, Lead, Mercury, Selenium	EN 71 (P-3) : 2013	0.5 to	10000 mg/kg		
2.	Textiles & Garments and metal and plastic accessories	Cadmium content	EN 1122:2001,	0.5 to	10000 mg/kg		
3.	Metallic accessories of Textiles & Garments	Nickel Release	BS EN 1811:2011	0.5 to	10000 ug/cm ² /week		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			
4.	Textiles & Garments	Determination of Chlorophenols Pentachlorophenol (PCP) Tetrachlorophenol (TeCP) Orthophenylphenol (OPP) Trichlorophenol (TCP) 2,3,5,6-tetrachlorophenol NP (Nonylphenol) OP (Octylphenol) Bisphenol	RALPL/ANA-Textile/08-2012 (Based on DIN 53313)	2. 0.1 to 1	000 mg/kg	
5.	Textiles & Garments and accessories	Determination of Phthalates) Di-iso-nonylphthalate (DINP)) Di-n-octylphthalate (DNOP)) Di-isobutyl phthalate (DIBP)) Di(2-ethylhexyl)- phthalate(DEHP)) Di-iso-decylphthalate(DIDP)) Butylbenzylphthalate(BBP)) Dibutylphthalate(DBP)	RALPL/ANA-Textile/02-2012 (Based on CPSC CH C1001- 09.3, 2010)	2 1 to 100	000 mg/kg	
6.	Textiles & Garments and Dyes	Determination of certain aromati amines derived from Azo Colorat 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminobenzene 6) 5-Nitro-o-toluidine. 7) 4-Chloroaniline 8) 2,4 – Diaminoanisole. 9)4,4'Diaminodiphenyl methane.)0 mg/kg	

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Disc	cipline	Chemical Testing	Is	sue Date	15.09.2014	
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
		 10) 3,3 Dichlorobenzidine 11) 3,3 Dimethoxybenzidine 12) 3,3 Dimethylbenzidine 13) 3,3 Dimethyl-4,4' Diaminodiphenylmethane. 14) p-Cresidine. 15) 4,4' Methylene -bis- (2 Chloroaniline) 16) 4,4' Oxydianiline 17) 4,4' Thiodianiline 18) 0-Toluidine 19) 2,4 - Toluylendiamine. 20) 2,4,5 Trimethylaniline. 21) 0-Anisidine 22) 4-Aminoazobenzene. 23) 2,4 Xylidine. 24) 2,6 Xylidine. 	RALPL/ANA-Textile/05-2012 (Based on BS EN 14362-1:20 BS EN 14362 – 1 : 2003, ISO 17234-1 (2010) ISO 17234-2 (2011) LFGB 82.02 (P-)S 2,4)		00 mg/kg	
7.	Textiles & Garments and Coloured accessories	 Detection of Allergenic Disperse Dyestuff in textiles 1) Disperse Blue-1 2) Disperse Blue-3 3) Disperse Blue-7 4) Disperse Blue-26 5) Disperse Blue-26 5) Disperse Blue-35 6) Disperse Blue-102 7) Disperse Blue-106 8) Disperse Blue-124 9) Violet 1 9) Disperse Orange-1 10) Disperse Orange-3 	RALPL/ANA-Textile/ 06 -201 (Based on DIN 54231)	2 5 to 10	00 mg/kg	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			
		 Disperse Orange-37 / 76 Disperse Brown-1 Disperse Red-1 Disperse Red -11 Disperse Red-17 Disperse Yellow-1 Disperse Yellow-3 Disperse Yellow-9 Disperse Yellow-39 Disperse Yellow-39 Disperse Yellow-49 Orange 149 	RALPL/ANA-Textile/ 06 -20 (Based on DIN 54231)	12 5 to 10	00 mg/kg	
8.	Textiles & Garments and Textile auxiliaries	 Polycyclic Aromatic Hydrocarba 1. Naphthalene 2. Acenaphthylene 3. Acenaphthene 4. Fluorene 5. Phenanthrene 6. Anthracene 7. Fluoranthene 8. Pyrene 9. Benzo[a]anthracene 10.Chrysene 11.Benzo[a]pyrene 12.Benzo[e]pyrene 13.Indeno[1,2,3-cd]pyrene 14.Dibenzo(a,h)anthracene 15.Benzo[g,h,I]perylene 16.Benzo[b]fluoranthene 17.Benzo[j]fluoranthene 	ons (PAH) RALPL/ANA-Textile/01-201 (Based on ISO 18287 : 2006 -		1000 mg/kg	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		ge of Testing / its of Detection	
9.	Textiles & Garments	 18.Benzo[k]fluoranthene 19.Pyrene D10 20.Benzo[a]pyrene D12 PESTICIDES RESIDUE 2,3,5,6-tetrachlorophenol 2,4,6-Trichlorophenonyacetic acid (2,4,5-T) 2,4-Dichlorophenoxyacetic acid (2,4-D) Acetameprid Aldrin Atrazine Azinphos Azinphos-methyl Alpha- and beta-Endosulfan Beta-Endosulfan Bifenthrin Bendiocarb Bioresmethrin Bromophos-ethyl Buprofezin Captafol Carbaryl Carbosulfan Clethodim Chlordane Chlordimeform, Chlordimeform free base 	RALPL/ANA-Textile/07-20 (LC-MS-MS/GC-MS-MS METHOD)	012 0.1 to	9 1000 mg/kg	

Laboratory		ooratories Private Limite , Mankoli, Bhivandi, Tha		
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed		e of Testing / s of Detection
Textiles & Garments	Chlordimeform HCl Chlorpyrifos-ethyl Chlorpyrifos-methyl Chlorfenapyr Chlorfenvinphos Chlorfluazuron Coumaphos Cyfluthrin Cyhalothrin lambda-Cyhalothrin Cypermethrin DDD (op- and pp-) 2,4'-DDD 4,4'-DDD DDE (op- and pp-) 2,4'-DDE 4,4'-DDE DDT, o,p DDT, p,p- 2,4'-DDT 4,4'-DDT DEF/ 2,4 Dichlorodiphenyldichloroethane Deltamethrin Diafenthiuron Diazinon	RALPL/ANA-Textile/07-20 (LC-MS-MS/GC-MS-MS METHOD)	012 0.1 to 1	.000 mg/kg

Laboratory		aboratories Private Limited ex, Mankoli, Bhivandi, Than		
Accreditation Standa	ISO/IEC 17025: 2005			
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed		e of Testing / s of Detection
Textiles & Garments	Dichlofenthion Dicrotophos Dichlorprop Dichlorvos Dieldrin Diflubenzuron Dimethoate Dinoseb and salts Diuron Endosulfan sulfate Empenthrin Endrin Esfenvalerate Ethion Fenchlorphos Fenitrothion Fenchlorphos Fenitrothion Fenthion Fenpropathrin Fenvalerate Fipronil Flumethrin Heptachlor Heptachlor epoxide Hexachlorobenzen (HCB) Hexachlorocyclohexane – a- Lindane	RALPL/ANA-Textile/07-2012 (LC-MS-MS/GC-MS-MS METHOD)	2 0.1 to 1	000 mg/kg

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Accreditation Standard	d ISO/IEC 17025: 2005				
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specificat against which tests are performed		e of Testing / s of Detection	
Textiles & Garments	Imidacloprid Lindane Lufenuron Malathion MCPA MCPB Mecoprop Metolachlor Methomyl Mevinphos Methamidophos Methamidophos Methoxychlor Mirex Monocrotophos Parathion-ethyl Parathion-methyl Parathion-methyl Pendimethalin PCP/ Pentachlorophenol Permethrin Perthane Phosmet Phoxim / Baythion Pirimiphos-methyl Pirofenophos Prometryn	RALPL/ANA-Textile/07-2 (LC-MS-MS/GC-MS-MS METHOD)	012 0.1 to 1	.000 mg/kg	

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S.No.	Product / Material of Test	Sp	ecific Test Performed	Test Method Specification against which tests are performed	on		e of Testing / s of Detection
	Textiles & Garments	Pro Py Qu Qu Te Th Te To Tri Tri Tri Tri Tri Th Th To Tri De	metrozine opetamphos rethrum inalphos intozine flubenzuron iamethoxam trachlorvinphos xaphene lodrin obane ansfluthrin ifluralin iflumuron iodicarb idiazuron lclofos-methyl ifloxysulfuron-sodium termination of Chlorinated ganic Carriers 2-Chlorotoluene 3-Chlorotoluene 2,3-Dichlorotoluene 2,4-Dichlorotoluene 2,6-Dichlorotoluene 3,4-Dichlorotoluene 3,4-Dichlorotoluene 2,3,6-Trichlorotoluene 2,4,5-Trichlorotoluene	RALPL/ANA-Textile/07-20 (LC-MS-MS/GC-MS-MS METHOD) RALPL/ANA-Textile/04-20 (Based on DIN 54232)			000 mg/kg 00 mg/kg

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S.No. Product / S.No. S Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Garments	 Pentachlorotoluene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,3,4- Fetrachlorobenzene 1,2,3,5- Tetrachlorobenzene 1,2,4,5- Tetrachlorobenzene 1,2,4,5- Tetrachlorobenzene Pentachlorobenzene Pentachlorobenzene Hexachlorobenzene Machine Description Disperse Dyestuff in textiles Acid Red 26 Direct Black 38 Direct Red 28 	RALPL/ANA-Textile/04-20 (Based on DIN 54232) RALPL/ANA-Textile/06-20 (Based on DIN 54231)		00 mg/kg 00 mg/kg
	Direct Brown 95 Acid Violet 49 Disperse Blue 1 Disperse Yellow 3 Solvent Yellow 2 Solvent Yellow 3 Basic Red 9 Basic Violet 14 HCL Disperse orange 11			

Labo	oratory	•	Reliable Analytical Laboratories Private Limited, Reliable House, 125 Indian Corpn Complex, Mankoli, Bhivandi, Thane, Maharashtra ISO/IEC 17025: 2005			
Acc	reditation Standa	rd ISO/IEC 17025: 2005				
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
X.	TOYS					
1.	Safety requirements for toys	Migration of elements Antimony Arsenic Barium Cadmium Chromium Lead Mercury Selenium Bis-(2-ehtyl hexyl) Pthalate (DEHP) Dibutyl Phthalate (DBP) Benzyl Butyl Phthalate (BBP) Di-n-Octyl Phthalate (DINP)	IS 9873 (P-3) : 1999, Amnd 3 IS 9873 (P-3) : 1999, Amnd 3	1 to 25 1 to 10 1 to 75 1 to 60 1 to 90 1 to 60 1 to 50 0.5 to 1 0.5 to 1 0.5 to 1	mg/kg 00 mg/kg mg/kg mg/kg mg/kg	

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