

Laboratory	Testing Services-CommGrade, National Collateral Management Services Limited, Plot No. A-1/2/A, 4th - 6th Floor, IDA Uppal, Uppal, Hyderabad, Telangana		
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I. FOODS & AGRICULTURAL PRODUCTS

a) Alcoholic Drinks & Beverages

pH	IS 3865: 2001	1 to 7
Copper	IS 3865: 2001	0.1 mg/l
Iron	IS 2346: 1992	1.0 mg/l
Arsenic	IS 6854: 1973	0.1 mg/l
Chromium, Mercury, Tin, Cadmium	AOAC 18 th edition 2005 chapter No. 9	0.1 mg/l
Lead	IS 2346: 1992	0.5 mg/l
PCBs:	STP No. 107, PAM, USFDA APHA 64311	Qualitative
Monochlorobiphenyl	IS: 13428-2005	
Dichlorobiphenyl		
Trichlorobiphenyl		
Tetrachlorobiphenyl		
Pentachlorobiphenyl		
Hexachlorobiphenyl		
Heptachlorobiphenyl		
Octachlorobiphenyl		

b) Animal and Poultry Feeds

Acid insoluble ash	IS:7874 (Part 1)-1975	0.02 to 1%
Salt as NaCl	IS:7874 (Part 2)-1975	0.1 to 5%
Crude Fiber	IS:7874 (Part 1)-1975	5 to 35%
Oil Content	IS:7874 (Part 1)-1975	0.1 to 10%
Protein	IS:7874 (Part 1)-1975	15 to 50%
Moisture	IS:7874 (Part 1)-1975	0.01 to 15%
	IS 3579:1996	

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	Animal and Poultry Feeds	alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, Aldrin, Heptachlor, op-DDT, p,p-DDT, o,p-DDE, p,p-DDE, o,p-DDD, p,p- DDD, Chlordane (cis & trans), Dieldrin, Endosulfan (I,II & sulfate) Permethrin Cyfluthrin Fenvalerate, Cypermethrin, Deltamethrin and PCBs	STP No. 127	0.01 mg/kg

c) Bakery and Confectionery Products

i) Sugar & Sugar Based Confectionery Products	alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, Chlorthalonil, Parathion methyl, Heptachlor, Aldrin, Parathion-ethyl, Dicofol, Chlordane (cis&trans),	STP No. 121 (GC-MS/MS)	0.005mg/kg
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	Sugar & Sugar Based Confectionery Products	Endosulfan (I,II& Sulfate), o-p-DDT, p,p-DDT, o,p-DDE, P,P-DDE, o,p-DDD, p,p-DDD, Dieldrin, Endrin, Permethrin (cis&trans), Cyfluthrin, Cypermethrin, Fenvalerate and Deltamethrin.	STP No. 121 (GC-MS/MS) based on USFDA PAM Vol-I- 3 rd Ed Rev 1999	0.005mg/kg
		Monocrotofos, Dimethoate, Phosphamidon, Carbofuran, Carbaryl, Metalaxyl, Atrazine, Malathion, Captafol, Quinolphos, Phosalone, Phorate, Ethion, Chlorpyrifos, Propargite, Pyrethrins, Isoproturon, Methyl paraoxon, Alachlor, Phorate	STP NO. 120 (LC-MS/MS)	0.005mg/kg

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	Sugar & Sugar Based Confectionery Products	Sulfoxide, Phorate Sulfone, Butachlor and Malaoxon	STP NO. 120 (LC-MS/MS)	0.005mg/kg
		Ash sulfated	IS :1008 -2004	0.1 %
		Acid insoluble ash	IS :1008 -2004	0.02-5%
		Moisture	IS :1008 -2004	0.05%
		Reducing Sugar	IS :1008 -2004	5.0%
		Sucrose	IS :1008 -2004	10 to 60%
		Fat	IS :1008 -2004	0.5%
		Protein	IS: 7219-1973	0.5 %
		Lactose	IS :1008 -2004	1%
	ii) Biscuits	Acidity of extracted Fat	IS: 1011-2002	0.1 – 5%
		Moisture	IS: 1011-2002	0.5 – 10%
		Acid insoluble ash (Dry basis)	IS: 1011-2002	0.02 – 1%
d)	Cereals, Pulses, and by-Products	Aflatoxins B1, B2, G1 & G2 by HPLC	STP No.118 Method based n AOAC 18 th	1 µg/kg
		Aflatoxins B1, B2, G1 & G2 by LC-MS/MS	STP No.105	0.5 µg/kg

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	Cereals, Pulses, and by-Products	Gluten content	IS: 1155-1968	1 to 15%	
		Free Acidity	IS:4706 (Part 2)- 1978	0.1 to 5%	
		Alcoholic acidity (as H ₂ SO ₄)	Appendix F of IS: 1155- 1968	0.1 to 2%	
		Hectoliter Weight	IS: 4333 (Part 3)-2002	50 to 150 kg/hl	
		Refractions	IS: 4333-1996 (Part 1)	1 to 50%	
	i)Chana (Bengal Gram)	Foreign matter	IS: 4333-1996 (Part 1)	0.1 to 20%	
		Damaged & Weevilledseeds	IS: 4333-1996 (Part 1)	1 to 15%	
		Brokens, Splits	IS: 4333-1996 (Part 1)	1 to 15%	
		Green,Immature, Shrunken, Shrivelled seeds	IS: 4333-1996 (Part 1)	1 to 15%	
		Moisture	IS: 4333-2002 (Part 2)	5 to 20%	
		ii)Maize	Moisture	IS: 4333-2002 (Part 2)	5 to 20%
			Foreign matter	IS: 4333-1996 (Part 1)	0.1 to 10%
	Broken, damaged slightly damaged and Immature kernels		IS: 4333-1996 (Part 1)	0.5 to 15%	
	Weevilled grains		IS: 4333-1996 (Part 1)	1-15%	
	Count Per 100g		IS: 4333-2002 (Part 4)	325-460	
		Starch	IS:4706-1978 (Part 2)	10-70%	

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iii)Atta		Moisture	IS: 1155-1968	5 to 15%
		Total Ash	IS: 1155-1968	1 to 2.5 %
		Acid insoluble ash	IS: 1155-1968	0.02 to 2 %
		Protein	IS: 7219-1973	5 to 16%
		Dry Gluten	IS: 1155-1968	4 to 14%
		Alcoholic Acidity	IS: 1155-1968	0.01 to 5%
		Crude fiber	IS:10226 (Part-1) 1985	1 to 10%
		Carbohydrates	AOAC 18 th edition 986.25	30 to 70%
		Fat	AOAC 18 th edition 922.06	0.1 to 5%
iv)Maida		Moisture	IS: 1009-1979	5 to 14%
		Total Ash	IS: 1009-1979	0.1 to 2%
		Acid insoluble ash	IS: 1009-1979	0.02 to 2%
		Protein	IS: 7219-1973	5 to 17%
		Dry Gluten	IS: 1009-1979	3 to 17%
		Crude fiber	IS:10226 (Part-1) 1985	1 to 10%
		Carbohydrates	AOAC 18 th edition 986.25	30 to 70%

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	Maida	Fat	AOAC 18th edition 922.06	0.1 to 5%
		Alcoholic Acidity	IS: 1009-1979	0.05 to 0.5%
	v) Bombay Rawa	Moisture	IS: 1010-1968	5 to 15%
		Total Ash	IS: 1010-1968	0.5 to 2.5%
		Acid insoluble ash	IS: 1010-1968	0.02 to 0.5%
		Protein	IS: 7219-1973	4 to 13%
		Dry Gluten	IS: 1010-1968	5 to 12%
		Crude fiber	IS:10226 (part-1) 1985	1 to 10%
		Carbohydrates	AOAC 18 th edition 986.25	30 to 70%
		Fat	AOAC 18 th edition 922.06	0.1 to 5%
		Alcoholic Acidity	IS: 1010-1968	0.05 to 0.5%
	vi) Lapsi Rawa	Moisture	IS: 1010-1968	5 to 15%
		Total Ash	IS: 1010-1968	0.5 to 2.5%
		Acid insoluble ash	IS :1010-1968	0.02 to 0.5%
		Protein	IS: 7219-1973	4 to 13%
		Dry Gluten	IS: 1010-1968	5 to 12%

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	Lapsi Rawa	Crude fiber	IS 10226 (Part1) 1985	1 to 10%
		Carbohydrates	AOAC 18th edition 986.25	30 to 70%
		Fat	AOAC 18 th edition 922.06	0.1 to 5%
		Alcoholic Acidity	IS: 1010-1968	0.05 to 0.5%
	vii) Besan Powder	Moisture	IS: 1009-1979	6 to 13 %
		Total Ash	IS: 1009-1979	1 to 5%
		Acid insoluble ash	IS: 1009-1979	0.02 to 1%
		Protein	IS: 7219-1973	10 to 25%
		Crude fiber	IS 10226 (Part1) 1985	1 to 10%
		Carbohydrates	AOAC 18 th edition 986.25	30 to 70%
		Fat	AOAC 18 th edition 922.06	0.1 to 5%
		Alcoholic Acidity	IS: 1009-1979	0.05 to 0.5%
	viii) Chana -Whole	Moisture	IS : 4333(Part 2) : 2002	2 to 15 g/100g
		Foreign matter (other than varietal admixture)	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 15 g/100g
		Damaged seeds	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 15 g/100g
		Brokens, Splits	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 15 g/100g

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	Chana -Whole	Green/Immature/ Shriveled Seeds	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 15 g/100g
		Weeviled Seeds/ Insect Damaged	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 15 g/100g
		Varietal admixture	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 15 g/100g
	ix) Soybean	Moisture	IS : 4333(Part 2) : 2002/ IS : 3579 : 1966 Reaff.2006	2 to 15 g/100g
		Foreign matter/ Impurities	IS : 4333(Part 1) : 1996 Reaff.2012/ IS : 3579 : 1966 Reaff.2006	0.1 to 10 g/100g
		Green seeds	STP No. 179 Issue No.01;Effective date 23.05.2014	0.1 to 20 g/100g
		Damaged Seeds	IS : 4333(Part 1) : 1996 Reaff.2012/ IS : 3579 : 1966 Reaff.2006	0.1 to 20 g/100g
	x) Wheat	Damaged Kernel (Other than insect damaged)	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Insect damaged Kernel	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Foreign Matter	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 10 g/100g
		Other food grains	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 10 g/100g

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	Wheat	Shriveled, Broken grains (not damaged)	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Total defects sum of foreign matter, other edible grains, damaged kernel (other than infestation damaged), shrivelled/ broken grains	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 50 g/100g
		Moisture	IS : 4333(Part 2) : 2002	2 to 15 g/100g
		Hectoliter Weight	IS : 4333(Part3) : 2002	60 to 90 g/100 ml
	xi) Barley	Moisture	IS : 4333(Part 2) : 2002	5 to 20 g/100g
		Damaged including Discolored (black tipped/ black cornered only)	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Insect Damaged/ Weevilled	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Foreign Matter	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Other food grains	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		Broken Kernels	IS : 4333(Part 1) : 1996 Reaff.2012	0.1 to 20 g/100g
		TCW (weight of thousand grains)	IS : 4333(Part4) : 2002	30 g to 60 g

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	xii) Animal Feeds / Cearles, Pulses & By Products	Total Ash	AOAC 18 th edition, 32.1.005 (923.03)4.1.10 (942.05)	0.1 to 10%
		Acid insoluble Ash	AOAC 18 th edition, 11.2.01D (925.55)	0.02 to 1%
		Water insoluble Ash	AOAC 18 th edition, 11.2.01 C (925.55)	0.05 to 2%
		Total Fat	AOAC 18 th edition, 4.5.01 (920.39), 4.5.03 (932.02), 33.5.08 (932.06)	0.1 to 80%
		Protein	AOAC 18 th edition, 4.2.06 (976.06),4.2.09 (984.13)	0.1 to 80%
		Crude Fiber	AOAC 18 th edition, 4.6.01 (962.09) IS: 10226 (Part -1)	0.1 to 15%
		Vitamin-C	IS:5838-1970	2.0 mg/kg
		Dietary fiber	AOAC 18 th edition 45.4.07 (985.29)	0.1 %
		Carbohydrates	AOAC 18 th edition, 50.1.16 (986.25)	1 to 80%
		pH of aqueous extract	AOAC 18 th edition, 32.1.20 (940.20)	0.1 to 13.9
		Iodine	IS:7224-2006	0.05%
		Phosphorus	IS: 12756-1989 Reaffirmed 1999	0.05%

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	Animal Feeds /Cearles, Pulses & By Products	Sodium	STP No.104	1mg/kg
		Potassium		
		Pb, Cu, Cd, Zn, Fe, Hg, As, Cr and Mn	STP No.104	0.1 mg/kg
		Tin (Sn)	STP No.104	0.25 mg/kg
	xiii) Soya Products	Calcium	STP No.104	1 mg/kg
		Magnesium		
	xiii) Soya Products	Melamine	STP No.128	0.01 mg/kg
		Urease Activity	Gafta Method No.27 AOCS Method BA 9-58	0.1 to 1.0 mg 0.01 to 0.2
	xiv) Rice	Ochratoxin A	STP No.158	1 µg/kg
e)	Coffee, Cocoa and by-Products			
		Moisture	IS: 2791-1992	1 to 10%
		Total Ash	IS: 2791-1992	1 to 10%
		Solubility in Boiling water	IS: 2791-1992	Qualitative
		Solubility in Cold water	IS: 2791-1992	Qualitative
		Caffeine	IS:2791-1992 AOAC 18 th edition	0.1%
	Coffee Products	Cu	STP No.119	0.1 mg/kg
		As		
		Zn		
		Fe		
		Cd		
		Mn		
		Cr		

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	Coffee Products	Ni Se Ba Pb Hg Ca Mg Na K	STP No.119	1 mg/kg
		Sn	STP No.119	0.1 mg/kg
		Aflatoxins B1, B2, G1 & G2 by HPLC	STP No.118	1 µg/kg
		Aflatoxins B1, B2, G1 & G2 by LC-MS/MS	STP No.105	0.5 µg/kg
		Ochratoxin A	STP No.158	1 µg/kg
f)	Milk and Dairy Products	Total solids	AOAC 18 th edition, 32.2.03 (925.10) IS:13334-1998 (Part1)	1 to 100%
		Insolubility Index	IS: 12759-1989	0.1 to 1.0 ml
		Acidity of Milk	AOAC 18 th edition, 33.2.06 (947.05)	0.1 to 5%
		Milk fat	IS: 11721-2005	0.05 to 10%

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	Milk and dairy products	Milk Protein	IS: 7219-1973	1 to 40%
		Total ash	IS: 14433-1997 (Part1)	1 to 10 %
		Titrateable Acidity	IS: 11766 – 1986	0.1 to 5%
		Vitamin A Acetate	IS: 5886-1970	1 mg/kg
		Ascorbic Acid (Vitamin C)	IS: 5838-1970	2 mg/kg
		Melamine	STP No. 128	0.01 mg/kg
		Solid Not Fat	IS 1479:1961(Part-2)	1 to 10%
		Pb	STP No.117	0.1 mg/kg
		Cd		
		Cu		
		Mn		
		Cr		
		Ni		
		As		
		Se		
		Hg		
		Ba		
		Fe		
		Zn		
		B		
	Ca			
	Na			
	K			
	Mg			
	Sn(Tin)			
	Aflatoxin M1	STP No.177	1 µg/L	

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	Milk and dairy products	alpha-HCH, beta-HCH, gamma-HCH, delta-HCH, Chlorthalonil, Parathion methyl, Heptachlor, Aldrin, Parathion-ethyl, Dicofol, Chlordane (cis&trans), Endosulfan (I,II&Sulfate), op-DDT, p,p-DDT, o,p-DDE, P,P-DDE, o,p-DDD, p,p-DDD, Dieldrin, Endrin, Permethrin (cis&trans), Cyfluthrin, Cypermethrin, Fenvalerate and Deltamethrin	STP No. 115 (GC-MS/MS)	0.01mg/kg
		Monocrotofos, Dimethoate, Phosphamidon, Carbofuran, Carbaryl, Metalaxyl, Atrazine,	STP No. 114 (LC-MS/MS)	0.01mg/kg

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	Milk and dairy products	Malathion, Captafol, Quinolphos, Phosalone, Phorate, Ethion, Chlorpyrifos, Propargite, Pyrethrins, Isoproturon, Methyl paraoxon, Alachlor, Phorate Sulfoxide, Phorate Sulfone, Butachlor and Malaoxon	STP No. 114 (LC-MS/MS)	0.01mg/kg
g)	Tea and Tea Products	Water soluble Extracts	AOAC 18 th edition, 30.1.34 (920.104) IS: 3633-2003	30 to 60%
		Alkalinity of water soluble ash	AOAC 18 th edition, 44.1.05(900.02D & 900.02E) or IS: 3633-2003	0.1 to 5%
		Alkalinity of water insoluble ash	AOAC 18 th edition, 44.1.05(900.02D & 900.02E) or IS: 3633-2003	0.1 to 5%
		Water soluble ash	AOAC 18 th edition, 44.1.05 (900.02B) or IS: 3633-2003	30 to 80%
		Water Insoluble ash	AOAC 18 th edition, 44.1.05 (900.02B) or IS: 3633-2003	10 to 50%

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	Tea and Tea Products	Petroleum ether extract	AOAC 18 th edition, 30.1.17 (920.97)	0.1 to 5%
		Acid insoluble ash	IS: 3633-2003	0.02 to 5%
		Crude Fibre	IS: 3633-2003	5 to 30%
		Cu	STP No.119	0.1 mg/kg
		Cd		
		Mn		
		Cr		
		Ni		
		Se		
		Pb		
		As		
		Hg		
		Ba		
		Fe		
		Zn		
		Ca	STP No.119	1 mg/kg
		Mg		
		Na		
		K		
		Sn(Tin)	STP No.119	0.1 mg/kg
		Aflatoxins	STP No.118	1 µg/kg
		B1, B2, G1 & G2 by HPLC		
		Aflatoxins	STP No.105	0.5 µg/kg
		B1, B2, G1 & G2 by LC-MS/MS		

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h)	Spices and Condiments	Aflatoxins B1, B2, G1 & G2 by HPLC	STP No.118	1 µg/kg
		Aflatoxins B1, B2, G1 & G2 by LC-MS/MS	STP No.105	0.5 µg/kg
		Starch	ASTA Analytical Method 8.0	30 to 70 %
		Color	ASTA Analytical Method 20.1	1 to 200 ASTA
		SHU by ASTA	ASTA METHOD 21.3	500 SHU's
		Capsaicin	ASTA METHOD 21.3	100 mg/kg
		Volatile oil	IS:1797-1985	0.1to 35 %
		Moisture	IS: 1797-1985	0.1 to 25 %
		Total ash	IS: 1797-1985	0.1 to 30 %
		Acid Insoluble ash	IS: 1797-1985	0.02 to 15 %
		Crude Fibre	IS: 1797-1985	0.1 to 40 %
		Sudan Orange G	STP No 113	10 µg/kg
		Sudan Red 7B		10 µg/kg
Butter Yellow	10 µg/kg			
ParaRed	10 µg/kg			
Rhodamine B	10 µg/kg			

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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
i) Turmeric Fingers	Fingers that are Broken/those less than 15mm		IS: 3576-2010	0.5 mm to 5 cm
	Busha, Chaff, dirt, Earth clods & Stones		IS: 3576-2010	0.01 to 5%
	Bulbs		IS: 3576-2010	0 to 10%
	Damage due to moisture and over boiling		IS: 3576-2010	0.1 to 5%
	Moisture		IS: 1797-1985	5 to 20%
	Inferior quality		IS: 3576-2010	0.5 to 5%
	Length (More than 3 cm)		IS: 3576-2010	0.5mm to 5 cm
	Unboiled or less boiled turmeric		IS: 3576-2010	0.1 to 5%
ii) Cumin Seeds	Moisture		IS: 1797-1985	2 to 15%
	Foreign particles		IS: 2447-2010 IS: 1797-1985	0.5 to 10 %
	Stalked seeds		IS: 2447-2010	1 to 20%
	Test Weight on Count basis		IS: 4333-2002 (Part 4)	200 to 400
	Damaged Discoloured Weevilled seeds shriveled and Immature seeds		IS: 2447-2010	0.5 to 10%

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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
iii) Cumin whole		Extraneous matter	IS : 2447 : 2010 / IS : 1797 : 1985	0.1 to 10g/100g
		Seeds with Stalks	STP No. 183 Issue No.01; Effective date 23.05.2014	1 to 20g/100g
		Damaged, Discolored, shrivelled and immature seeds	IS : 2447 : 2010	0.1 to 20g/100g
		Weeviled seeds	IS : 2447 : 2010	0.1 to 20g/100g
		Moisture	IS : 1797 : 1985	2 to 15g/100g
		Test Weight (on count basis)	STP No. 183 Issue No.01; Effective date 23.05.2014	200 to 450
iv) Chilli Whole		Moisture	IS: 1797-1985	1 to 20%
		Foreign matter	IS: 1797-1985	0 to 10 %
		Broken chillies	IS: 1797-1985	0 to 40 %
		Loose seeds	IS: 1797-1985	0.1 to 10%
		Damaged & Discolored Pods	IS: 2322-2010	1 to 50 %
		Length	IS: 2322-2010	2cm to 15cm
		Color (Visual)	IS: 2322-2010	Visual test
	Freedom from Moulds, insects, etc	IS: 2322-2010	Visual test	

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	Chilli Whole	Odour and Flavour	IS: 2322-2010	Organo-leptic
		Extraneous matter	IS : 2447 : 2010 / IS : 1797 : 1985	0.1 to 10g/100g
		Seeds with Stalks	STP No. 183 Issue No.01; Effective date 23.05.2014	1 to 20g/100g
		Damaged, Discolored, shrivelled and immature seeds	IS : 2447 : 2010	0.1 to 20g/100g
		Weeviled seeds	IS : 2447 : 2010	0.1 to 20g/100g
		Moisture	IS : 1797 : 1985	2 to 15g/100g
		Test Weight (on count basis)	STP No. 183 Issue No.01; Effective date 23.05.2014	200 to 450
		Moisture	IS : 1797 : 1985	1 to 20g/100g
		Extraneous matter	IS : 2322 : 2010	0.1 to 10g/100g
		Broken chillies	IS : 2322 : 2010	0.1 to 40g/100g
		Loose seeds	STP No. 184 Issue No.01; Effective date 23.05.2014 Issue No.01; Effective date 23.05.2014	0.1 to 10g/100g
		Damaged & Discolored Pods	STP No. 184 Issue No.01; Effective date 23.05.2014	0.1 to 50g/100g

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	Chilli Whole	Insect Damaged Matter	IS : 2322 : 2010	0.1 to 5 g/100 g
		Unripe and Marked fruits	IS : 2322 : 2010	0.1 to 10 g/100 g
		Length	STP No. 184 Issue No.01; Effective date 23.05.2014	0.1 to 10g/100g
		Color (Visual)	IS : 2322 : 2010	Visual test
		Free from Moulds, insects, etc	IS : 2322 : 2010	Visual test
		Odour and Flavor	IS : 2322 : 2010	Visual test
	v) Coriander Whole & Powder	Moisture	IS: 1797-1985	1 to 20%
		Total Ash	IS: 1797-1985	2 to 8%
		Acid insoluble ash	IS: 1797-1985	0.02 to 2%
		Crude fiber	IS: 1797-1985	20 to 40%
		Foreign matter	IS 2443-2008	0.1 to 10%
		Damaged Discolored & Shrivelled seeds	IS 2443-2008	0.1 to 10%
		Weevilled seeds	IS 2443-2008	0.1 to 10%
		Coriander splits	IS 2443-2008	0.1 to 50%

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
vi) Chilli Powder		Moisture	IS: 1797-1985	6 to 18%
		Total Ash	IS: 1797-1985	1 to 10%
		Acid insoluble ash	IS: 1797-1985	0.02 to 2%
		Crude fibre	IS: 1797-1985	20 to 40%
vii) Turmeric Powder		Moisture	IS: 1797-1985	8 to 20%
		Total Ash	IS: 1797-1985	1 to 10%
		Acid insoluble ash	IS: 1797-1985	0.02 to 2.5%
		Chromate test	IS: 3576-2010	Qualitative
		Curcumin	ASTA Analytical Method 18.0	0.1 – 10 %
viii) Pepper		Piperin	ASTA Analytical Method 12.1	0.05-8 %
		Moisture	IS: 1797-1985	1 to 20%
		Light berries	IS: 1798-2010	0.1 to 5%
		Foreign matter	IS:1797-1985	0.1 to 10%
ix)Turmeric whole		Fingers that are Broken/ those less than 15mm	STP No. 182 Issue No.01; Effective date 23.05.2014	0.1 to 30g/100g
		Length (More than 3 cm)	STP No. 182 Issue No.01; Effective date 23.05.2014	50 to 100g/100g
		Fungus	Visual	Absent/Present
		Artificially coloured dyes/chemicals	IS : 3576 : 2010	Present/Absent

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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
i)	Sugar and by-products	Colour	ICUMSA - GS9/1/2/3-8	50 to 350 ICUMSA units
		Loss on drying	IS : 15279 : 2003	0.01 to 0.15 g/100g
		Sucrose	AOAC 18 th edition, 44.1.07 (925.46)	10 to 60%
		Invert Sugar	AOAC 18 th edition, 44.1.15 (923.09)	1 to 100%
		Color	ICUMSA GS213-10 (2005)	5 - 500 ICUMSA Units
i) Sugar (Raw)		Colour	ICUMSA - GS9/1/2/3-8	50 to 250 ICUMSA units
		Polarisation	IS: 5982-2003	97 to 100%
		Grain size retained on sieves	IS: 498-2003	60 to 100%
		Moisture	IS: 5982-2003	0.01 to 0.15%
ii) Sugar and sugar based products		Zn	STP No.132	0.1 mg/kg
		Fe		
		Ba		
		B		
		As		
		Hg		
		Cr		
		Ni		
		Cu		
		Mn		
		Pb		
		Cd		
		Se		
Sn (Tin)				

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	Sugar and sugar based products	Ca Na K Mg	STP No.132	1 mg/kg
j)	Soft Drinks	PCBs: Monochloro biphenyl, Dichloro biphenyl, Trichloro biphenyl, Tetrachloro biphenyl, Pentachloro biphenyl, Hexachloro biphenyl, Heptachloro biphenyl and Octachloro biphenyl.	STP No. 107, PAM, USFDA APHA 6431 IS: 13428-2005	Qualitative
k)	Nuts & Nut Products	Aflatoxins B1, B2, G1 & G2 by HPLC	STP No.118	1 µg/kg
		Aflatoxins B1, B2, G1 & G2 by LC-MS/MS	STP No. 105	0.5 µg/kg
l)	Oil Seeds & by-Products			
	i) Oil Seed Meal Cake	Crude fibre	IS: 7874-1975 (Part I)	5 to 35%
		Oil Content	IS: 7874-1975 (Part I)	0.05 to 10%
		Protein	IS: 7874-1975 (Part I)	15 to 50%
		Total Ash	IS: 7874-1975 (Part I)	0.5 to 10%

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	Oil Seed Meal Cake	Sand and Silica or Acid insoluble ash	IS: 7874-1975 (Part I)	0.02 to 4%
		Moisture	IS: 7874-1975 (Part-1)	5 to 15%
	ii) Oils, Fats & Related Products	Moisture	IS:548-1964 (Part 1)	0.01 to 2%
		Saponification value	IS:548-1964 (Part 1)	100 to 250
		Refractive Index at 40 ⁰ C	IS:548-1964 (Part 1)	1.3250 to 1.7000
		Iodine value	IS:548-1964 (Part 1)	5 to 200
		Unsaponifiable matter	IS:548-1964 (Part 1)	0.1 to 1%
		Acid value	IS:548-1964 (Part 1)	0.1 to 10
		FFA	IS:548-1964 (Part 1)	0.1 to 5%
		Peroxide value (meq /1000g)	IS:548-1964 (Part 1)	1.1 to 20 meq/1000 g
		Insoluble Impurities	IS:548-1964 (Part 1)	0.1 to 5 %
		Specific gravity	IS:548-1964 (Part 1)	0.6 to 1.4
		Baudouin Test	IS:548-1976 (Part 2)	Qualitative
		Mineral Oil test	IS:548-1976 (Part 2)	Qualitative

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iii) Oils, Oil seeds & Fat based products		Fatty acid profile	AOAC 18 th edition 41.1.28 (969.33) & 41.1.29 (963.22)	0.1 %
		Cholesterol	AOAC 18 th edition, 45.4.10 (994.10)	10 mg/kg
iv) Castor seed		Oil content	IS : 3579 : 1966 Reaff.2006	30 to 60g/100g
		Impurities (Foreign matter) and damaged seeds	IS : 3579 : 1966 Reaff.2006	0.1 to 10g/100g
		Moisture	IS : 3579 : 1966 Reaff.2006	1 to 10g/100g
v) Mustard seeds		Moisture	IS : 3579 : 1966 Reaff.2006	1 to 10g/100g
		Oil Content	IS : 3579 : 1966 Reaff.2006	30 to 50g/100g
		Free fatty acid (as oleic acid)	IS: 548(part-1) : 1964 Reaff.2006	0.1 to 3g/100g
		Impurities (Foreign matter)	IS : 3579 : 1966 Reaff.2006	0.1 to 10g/100g
		Damaged and shriveled	IS : 3579 : 1966 Reaff.2006	0.1 to 20g/100g
		Weevilled seeds	IS : 3579 : 1966 Reaff.2006	0.1 to 10g/100g

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	vi) Guar Gum	Moisture/ Volatile matter	STP No. 180 Issue No.01; Effective date 23.05.2014 / IS: 7437 : 1974 Reaff.2004	2 to 15 g/100g
		Foreign Particles (All non gum particles)	STP No. 180 Issue No.01; Effective date 23.05.2014	0.1 to 5g/100g
		Particle Size (pass through 14 mesh / 20 mesh	STP No. 180 Issue No.01; Effective date 23.05.2014	0.01 to 10 g/100g
		Black, dark red and brown coloured splits	STP No. 180 Issue No.01; Effective date 23.05.2014	0.1 to 3 g/100g
		Undehusked Splits	STP No. 180 Issue No.01; Effective date 23.05.2014	0.1 to 20 g/100g
		Protein	IS: 7437 : 1974 Reaff.2004	1 to 15g/100g
		Residue Insoluble in acid	IS: 3988 : 1981 Reaff.2001	0.5 to 7 g/100g
	vii) Guar Seed	Moisture/ Volatile matter	STP No. 181 Issue No.01; Effective date 23.05.2014 / IS: 7437 : 1974 Reaff.2004	2 to 15 g/100g

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	Guar Seed	Whitish seeds	STP No. 181 Issue No.01; Effective date 23.05.2014	20 to 100g/100g
		Foreign matter	STP No. 181 Issue No.01; Effective date 23.05.2014	0.1 to 10 g/100g
		Damaged seeds	STP No. 181 Issue No.01; Effective date 23.05.2014	0.1 to 10 g/100g
m)	Fruits, Vegetables, Fruit Juices & Concentrates			
	i) Fruits and Vegetables	Acidity as Tartaric acid	IS 2860:1964	0.1 to 10%
		Acidity as Citric acid	IS 2860:1964	0.1 to 10%
		Zn	STP No.116	0.1 mg/kg
		Fe		
		Ba		
		B		
		Cu		
		Cr		
		As		
		Hg		
		Ni		
		Mn		
		Pb		
		Cd		
		Sn	STP No.116	0.1 mg/kg
		Ca	STP No.116	1mg/kg
		Na		
		K		
		Mg		

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ii)	Fruits, Vegetable, Fruit Pulps & Juices	4-bromo-2-chlorophenol α-HCH, β-HCH Lindane, HCH-delta Chlorthalonil Chlorpyrifosmethyl Parathion-methyl Heptachlor Fenitrothion Aldrin Parathion-ethyl Dicofol, Captan trans-Chlordane cis-Chlordane o,p-DDD p,p-DDD o,p-DDE p,p-DDE o,p-DDT p,p-DDT Endosulfan-I Endosulfan-II Endosulfan sulfate , Dieldrin Oxyfluorfen Endrin Iprodione Carbosulfan lambda-Cyhalothrin Fenarimol	STP No. 103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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	Fruits, Vegetable, Fruit Pulp & Juices	Permethrin Cyfluthrin Cypermethrin Etofenprox Fenvalerate & Esfen valerate (sum of RR and SS isomers) Fenvalerate, Esfenvalerate (sum of RS and SR isomers) and Deltamethrin Cartap, Methomyl Methamidophos Acephate Omethoate Phosphamidon Thiaphanatemethyl Dichlorvos, Carbofuran Simazine, Carbaryl Thiodicarb Metalaxyl , Atrazine Azoxystrobin Fenamidone Dimethomorph Myclobutanil Triadimefon Malathion, Spinosad, Triadimenol	STP No. 103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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	Fruits, Vegetable, Fruit Pulp & Juices	Triazophos, Flusilazole Diflubenzuron Iprobenphos Penconazole Tebuconazole Captafol, Emamectin benzoate Chlorfenvinfos Famoxadone Propiconazole Quinolphos Hexaconazole Bitertanol Etrimfos , Diazinon Pyraclostrobin Phosalone Indoxacarb Difenconazole Phorate Trifloxystrobin Profenophos Buprofezin Ethion Flufenoxuron Chlorpyriphos Propargite Difenthiuron Fenpyroximate Abamectin Dimethoate	STP No. 103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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	Fruits, Vegetable, Fruit Pulp & Juices	Monocrotophos Oxydemeton-Methyl Carbendazim Acetamiprid Clothianidin Imidacloprid Thiacloprid Thiamethoxam Cymoxanil	STP No. 103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg
		Fipronil	STP NO 109 (LC MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.005mg/kg
		Carbon disulfide (Mancozeb, Maneb, Propineb, Metiram, Thiram, and Ziram collectively estimated as CS2	IS:13832-1993	0.05 mg/kg
		Dinocap residues	STP No. 110	0.01 mg/kg

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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
iii)	Grapes	Aldrin Dieldrin Chlordane (cis) Chlordane (trans) Chlorothalonil p,p-DDT o,p-DDT o,p-DDE p,p-DDE o,p DDD p,p-DDD Dicofol alphaEndosulphan beta- Endosulphan Endosulphan sulphate Endrin alpha-HCH beta-HCH delta-HCH Heptachlor Heptachlor epoxide Lindane (gamma-HCH) 4-bromo-2-chlorophenol (metabolite of Profenophos) Chlorpyriphos-methyl Fenitrothion Parathion ethyl Parathion methyl Propetamphos Allethrin Bioallethrin Bifenthrin	STP No.103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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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
	Grapes	Cyfluthrin Cypermethrin Deltamethrin Ethofenprox Fenpropathrin Fenvalerate & Esfenvalerate Lambda-cyhalothrin Permethrin(cis) Permethrin(trans) tau- Fluvalinate Transfluthrin Propanil Bendiocarb Fenarimol Iprodione Captan Kresoxim methyl Oxyfluorfen Trifluralin Alachlor Butachlor	STP No.103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg
	Grapes	Acephate Chlorfenvinphos Chlorpyriphos Diazinon Dichlorvos Dimethoate Omethoate Edifenphos Ethion	STP No.109 (LC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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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
	Grapes	Etrimphos Fenthion Fenthion-sulfone Fenthion-sulfoxide Iprobenphos Malathion Malaaxon Methamidophos Monocrotophos Oxydemeton methyl Phosalone Demeton-S-methylsulfone Paraoxon methyl Phenthoate Phorate Phorate-sulfone Phorate-sulfoxide Phosphamidon Pirimiphos-methyl Profenophos Quinalphos Temephos Thiometon Triazophos Atrazine Flufenzine Simazine Benalaxyl Benalaxyl-M Metalaxyl Metalaxyl-M Oxycarboxin	STP No.109 (LC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

Laboratory	Testing Services-CommGrade, National Collateral Management Services Limited, Plot No. A-1/2/A, 4th - 6th Floor, IDA Uppal, Uppal, Hyderabad, Telangana		
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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
	Grapes	Benfurcarb Benomyl Carbaryl Carbofuran 3-hydroxy-carbofuran Carbosulfan Dazomet Fenobucarb Indoxacarb Iprovalicarb Methomyl Thiodicarb Propoxur Thiobencarb (Benthiocarb) Bitertanol Difenoconazole Flusilazole Hexaconazole Myclobutanil Paclobutrazol Penconazole Propiconazole Tebuconazole Triadimefon Triadimenol Fenamidone Famoxadone Captafol Benomyl Carbendazim Thiophanate-methyl	STP No.109(LC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

Laboratory	Testing Services-CommGrade, National Collateral Management Services Limited, Plot No. A-1/2/A, 4th - 6th Floor, IDA Uppal, Uppal, Hyderabad, Telangana		
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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
	Grapes	Acetamiprid Imidacloprid Thiacloprid Thiamethoxam Clothianidin Cymoxanil Dimethomorph Tridemorph Diafenthiuron Diuron 3,4-dichloroaniline Iodosulfuron-methyl Isoproturon Linuron Lufenuron Pencycuron Flufenoxuron Azoxystrobin Pyraclostrobin Trifloxystrobin Fenpyroximate Pendimethalin Carboxin Flufenacet Metolachlor S-Metolachlor), Novaluron Abamectin Bifenazate Buprofezin Cartap hydrochloride Homobrassinolide Diflubenzuron	STP No.109 (LC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

Laboratory	Testing Services-CommGrade, National Collateral Management Services Limited, Plot No. A-1/2/A, 4th - 6th Floor, IDA Uppal, Uppal, Hyderabad, Telangana		
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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
	Grapes	Dithianon Dodine Emamectin Benzoate Fenazaquin Flubendiamide Forchlorfenuron CPPU) Hexythiazox Isoprothiolane Mandipropamid Metribuzin Milbemectin A3 Milbemectin A4 Oxadiazon Propargite Pyriproxyfen Spinosad A Spinosyn D Spiromesifen Trichlorfon Uracil Tricyclazole Tetraconazole Dinotefuron Flonicamid Chlorantraniliproe Chlorfenpyr	STP No.109 (LC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg
		Glufosinate, MPP, Glyphosate, Aminomethylphosphonic acid (AMPA)	STP No. 161	0.05 mg/kg

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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
	Grapes	Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb and Ziram)	IS: 13832-1993	0.05 mg/kg
		Dinocap (sum of dinocap isomers and their corresponding phenols)	STP No.110	0.01 mg/kg
		Fipronil and Fipronil sulfone	STP No.109 (LC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.005 mg/kg
		1-Naphthylacetic acid (alpha-naphthyl acetic acid)	STP No. 162	0.02 mg/kg
		2,4-D	STP No. 162	0.01 mg/kg
		6-Benzyl adenine	STP No. 162	0.01 mg/kg
		Azadirachtin	STP No. 162	0.05 mg/kg
		Chlormequat (CCC) Chloride	STP No. 162	0.01 mg/kg
		Diquat	STP No. 162	0.05 mg/kg
		Mepiquat	STP No. 162	0.05 mg/kg
		Paraquat	STP No. 162	0.05 mg/kg
		Ethephon	STP No. 162	0.05 mg/kg
		Fosetyl-Aluminium	STP No. 162	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	Range of Testing / Limits of Detection
	Grapes	Gibberellic acid	STP No. 162	0.1 mg/kg
		Hydrogen cyanamide	STP No. 163	0.05 mg/kg
		Cadmium	STP No.104	0.02 mg/kg
		Copper compounds (all copper fungicides as elemental Cu)	STP No.104	0.2 mg/kg
		Lead	STP No.104	0.1 mg/kg
		Sulphur	STP No. 165	0.5 mg/kg
	iv) Pomegranates	4-bromo-2-chlorophenol HCH-alfa HCH-beta Lindane HCH-delta Chlorthaionil Chlorpyrifos-methyl Parathion-methyl Heptachlor Fenitrothion Aldrin, Parathion-ethyl, Dicofol Captan , Trans Chlordane, cis-Chlordane o,p-DDD P,P-DDD o,p-DDE P,P-DDE	STP No.103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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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
	Pomegranates	o,p-DDT p,p-DDT Endosulfan-I Endosulfan-II Endosulfan sulfate Dieldrin Oxyfluorfen Endrin Iprodione Carbosulfan lambda-Cyhalothrin Fenarimol Permethrin Cyfluthrin Cypermethrin Etofenprox Fenvalerate &Esfenvalerate (sum of RRand SS isomers) Fenvalerate &Esfenvalerate(sum of RS and SR isomers) and Deltamethrin	STP No.103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg
		Cartap, Methomyl Methamidophos Acephate Omethoate Oxydemetonmethyl Thiamethoxam Monocrotophos Carbendazim (including Benomyl)	STP No.103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.02 mg/kg

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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
	Pomegranates	Imidacloprid Clothianidin Acetamiprid Dimethoate Cymoxanil Thiacloprid Phosphamidon Thiaphanate-methyl Dichlorvos Carbofuran Simazine Carbaryl Thiodicarb Metalaxyl Atrazine Azoxystrobin Fenamidone Dimethomorph Myclobutanil Triadimefon Malathion. Spinosad Triadimenol Triazophos Flusilazole, Fipronil Diflubenzuron Iprobenphos Penconazole Tebuconazole Captafol Emamectin benzoate Chlorfenvinfos	STP No.103 (GC-MS/MS) based on AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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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
	v)Mangoes	Aldrin HCH-alfa HCH-beta, Lindane HCH-delta Chlorthalonil Chlorpyrifos-methyl Parathion-methyl Heptachlor, Captan Chlordane Cypermethrin DDT, Deltamethrin Dicofol Dieldrin Endosulfan Endrin Fenitrothion Fenvalerate Iprodione Parathion Permethrin	STP NO. 103 (GC-MS/MS) AOAC 18 th Ed. Method 2007.01	0.01 mg/kg
		Atrazine, Benalaxyl Benomyl, Bitertanol Carbendazim Carbaryl Carbofuran Captafol Cartap hydrochloride	STP No. 109 (LC-MS/MS) AOAC 18 th Ed. Method 2007.01	0.01 mg/kg

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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
	Mangoes	Chlorpyrifos Diazinon Dichlorvos Demeton-SMethyl Dimethoate Ethephon, Ethion Fenthion Hexaconazole Imidacloprid Malathion Metalaxyl Myclobutanil Oxydemeton-Methyl Phosalone Phosphamidon Propiconazole Quinalphos Thiophanate-Methyl Triazophos Triadimefon Tridemorph	STP No. 109 (LC-MS/MS) AOAC 18 th Ed. Method 2007.01	0.01 mg/kg
		Dinocap	STP No. 110 (LC-MS/MS)	0.01 mg/kg
n)	Egg & Egg Products	Alpha-HCH, Beta-HCH Gamma-HCH Delta-HCH Heptachlor Aldrin Chlordane (cis&trans)	STP No. 127 (GC-MS/MS) based on USFDA PAM Vol-I- 3 rd Ed Rev 1999	0.01 mg/kg

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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
	Egg & Egg Products	op-DDT p,p-DDT o,p-DDE P,P-DDE o,p-DDD p,p-DDD Endosulfan (I,II& Sulfate) Dieldrin, Permethrin Cyfluthrin Cypermethrin Fenvalerate, Deltamethrin and Polychlorinated biphenyls (PCBs).	STP No. 127 (GC-MS/MS) based on USFDA PAM Vol-I- 3 rd Ed Rev 1999	0.01 mg/kg
o)	Vitamins And Sudan Dyes in Foods	Vitamin A, Vitamin D3, Vitamin E, Vitamin K1, Vitamin K3	Chapter 45, IS:5398 Reaffirmed 2003, IS:5399 2005, IS:7530 1975, IS:7529 1975 STP No. 130	1 mg/kg
		Vitamin B1, B2, B3, B5, B6, B7, B9 & B12	Chapter 45, IS:5398:1969, Reaffirmed 2003, IS:5399 2005, IS:7530 1975, IS:7529 1975 STP No.131	1mg/kg
		Sudan I, II, III & IV	STP No. 113	10 µg/kg

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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
p)	Honey and Honey Products	Pb, As, Cd & Hg	STP No 104	0.1mg/kg
		Specific gravity at 27 ⁰ C	IS:4941-1994	1.3000 to 1.5000
		Moisture	IS:4941-1994	10 to 40%
		Total reducing sugar	IS:4941-1994	40 to 90%
		Sucrose	IS:4941-1994	2%
		Fructose-Glucose ratio	IS:4941-1994	0.5 to 1.5
		Ash	IS:4941-1994	0.1%
		Acidity (Expressed as formic acid)	IS:4941-1994	0.1%
		Hydroxy methyl furfural	IS:4941-1994/ AOAC 18 th Edition (980.23)	50 to 150 mg/100gm
		Total count of pollens and plant elements per gram of honey	IS:4941-1994	1000-100000
		Optical density at 660nm	IS:4941-1994	0.1%
		a) Sulfonamides	STP No. 126	
		Sulfadimidine		2 µg/kg
		Sulfadiazine		2 µg/kg
		Sulfadimethoxine		2 µg/kg
		Sulfadoxine		2 µg/kg
		Sulfamerazine		2 µg/kg
Sulfanilamide		2 µg/kg		
Sulfamethoxy pyridazine		2 µg/kg		
Sulfamethoxazol		2 µg/kg		
Sulfathiazol		2 µg/kg		
Trimethoprim		2 µg/kg		

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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
q)	Infant Foods	Total solids	AOAC 18th edition,, 32.2.03 (925.10)	1 - 100%
		Insolubility Index	IS : 12759 - 1989 Reaffirmed 1999	0.1-1ml
		Acidity of Milk	AOAC 18th edition,, 33.2.06 (947.05)	0.1 - 5%
		Titrateable Acidity	IS: 11766 - 1986 Reaffirmed 2003	0.1 - 5%
		Dietary Fiber	AOAC 18th edition, 45.4.07 (985.29)	0.1 - 5%
		Vitamin A Acetate	IS : 5886 – 1970	1 mg/kg
		Ascorbic Acid (Vitamin C)	IS : 5838 – 1970	2 mg/kg
r)	Marine Products	As,Cd,Ni, Pb Cr & Sn	STP No.133	0.25 mg/Kg
		Mercury (Hg)	STP No.133	0.1 mg/kg
		Nitrofurans & Metabolites Furazolidone , Furaltadone , Nitrofurantoin & Nitrofurazone AOZ (Metabolite of Furazolidone)	STP No. 123	1 µg/kg

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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
	Marine Products	AMOZ (Metabolite of Furaltadone) AHD (Metabolite of Nitrfurantoine) SEM (Metabolite of Nitrofurazone)	STP No. 123	1 µg/kg
		Sulfonamides Sulfacetamide Sulfapyridine Sulfmathazole Sulfisoxazole Sulfaquinoxaline Sulfaguanidine Sulfadiazine Sulfamerazine Sulfanilamide Sulfamethoxazol Sulfathiazol	STP No.126	10 µg/Kg
		Tetracycline	STP No. 124	
		Tetracycline		1 µg/kg

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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
	Marine Products	Oxytetracycline		1 µg/kg
		Chlortetracycline		1 µg/kg
		Doxycycline		1 µg/kg
		Chloramphenicol	STP No. 122	0.2 µg/kg
		Macrolides Erythromycin, Lincomycin, Jasomycin	STP No. 125	10 µg/kg
		Metronidazole	STP No. 129	1 µg/kg
		Oxolinic acid	STP No. 134	10 µg/kg
		Alpha-HCH, Beta-HCH Gamma-HCH Delta-HCH Heptachlor Aldrin Chlordane (cis&trans) op-DDT p,p-DDT o,p-DDE P,P-DDE o,p-DDD p,p-DDD Endosul fan (I,II&Sulfate) Dieldrin, Permethrin Cyfluthrin	STP No.127 (GC-MS/MS)	0.01 mg/kg

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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
	Marine Products	Cypermethrin Fenvalerate, Deltamethrin and Polychlorinated biphenyls (PCBs).	STP No.127 (GC-MS/MS)	0.01 mg/kg
s)	Food Grains, Dry Products	HCH isomers, Chlorthalonil, Parathion methyl, Heptachlor, Chlorpyrifos, Aldrin , Parathion-ethyl, Dicofol, Chlordane (cis&trans), Endosulfan (1,II & Sulfate), DDT isomers, Endrin, Permethrin, Cyfluthrin, Cypermethrin, Fenvelerate, Deltamethrin, Dieldrin	STP No.112 (GC-MS/MS) AOAC 18 th Ed. Method 970.52	0.01mg/kg
		Monocrotofos Dimethoate Phosphamidon Carbofuran Carbaryl	STP No.111 (LC-MS/MS) AOAC 18 th Ed. 970.52	0.01mg/kg

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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
	Food Grains, Dry Products	Metalaxyl Atrazine Malathion Captafol Quinolphos Phosalone Phorate Ethion Chlorpyrifos Propargite Pyrethrins Isoproturon Methyl Paraoxon Malaaxon Phorate Sulfoxide Phorate Sulfone Alachlor Butachlor	STP No.111 (LC-MS/MS) AOAC 18 th Ed. 970.52	0.01mg/kg
t)	Tobacco and by products	Chlorpyriphos, op DDT, pp DDT, op DDE, pp DDE, op DDE, pp DDE, Endosulfan (I,II & Sulfate), Profenophos, Lambda Cyhalothrin, Cypermethrin, Carbendazim, Methomyl and Acetamiprid	STP No 176	0.01mg/kg

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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
	Tobacco and by products	Pd, Cd, Ni, Cr, As and Hg	STP No.104	0.1mg/kg
(u)	Animal feeds (oil cake and de oiled cake)	Moisture	IS : 7874(part I) : 1975 Reaff.2001	1 to 15g/100g
		Crude Protein	IS : 7219 : 1973 Reaff. 2005/ IS : 7874(part I) : 1975 Reaff.2001	5 to 50g/100g
		Oil Content / Crude fat	IS : 3579 : 1966 Reaff.2006 / IS : 7874(part I) : 1975 Reaff.2001	2 to 10g/100g
		Total Ash (On dry basis)	IS : 7874(part I) : 1975 Reaff.2001	0.1 to 10g/100g
		Acid insoluble ash (On dry basis)	IS : 7874(part I) : 1975 Reaff.2001	0.02 to 4 g/100g
		Crude fiber (On dry basis)	IS : 7874(part I) : 1975 Reaff.2001	5 to 40g/100g
		Colour	Visual	Visual test
II.	HERBAL AND AYURVEDIC PRODUCTS			
		Fe ,Zn	WHO 2007	0.2 mg/kg
		Cu,Ni,Hg,Pb,As,Cd	WHO 2007	0.1 mg/kg

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III.	SOIL	Ca, Na, K ,Mg, Cu,Zn, Fe,Mn, Ba & B	EPA 3051,6010C	1.0 mg/kg
		Pb, Cd, Ni, Cr, Sn, Se,As &Hg	EPA 3051 6010C	0.1mg/kg
		HCH isomers Chlorthalonil Parathion ethyl Dicofol Heptachlor Aldrin Parathion-ethyl Chlordane (cis) Chlordane (trans) Endosulfan (I) Endosulfan (II) Endosulfan Sulfate DDT isomers Dieldrin	STP No. 112 (GC-MS/MS) AOAC 18 th Ed. Method 970.52	0.01 mg/kg
	Monocrotofos Dimethoate Phosphamidon Carbofuran Carbaryl Metalaxyl Atrazine Malathion Captafol Quinolphos Phosalone	STP No. 111 (LC-MS/MS) AOAC 18 th Ed. Method 970.52	0.01 mg/kg	

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	SOIL	Phorate Ethion Chlorpyrifos Propargite Pyrethrins Isoproturon	STP No. 111 (LC-MS/MS) AOAC 18 th Ed. Method 970.52	0.01 mg/kg
IV.	WATER			
a)	Packaged Drinking Water/Packaged Natural Mineral Water Other than Packaged Drinking Water (Treated, Raw, Bore Well, Processed Water For Food Industry, DM Water and R.O Water	Description Color Odor Taste Total dissolved solids Turbidity pH Conductivity Free Residual chlorine Chloride Fluoride	Cl.5.2 of IS 14543 - 2004 IS:3025 (Part-4)-1983, SM 2120 C IS:3025 (Part-5)-1983, SM 2150 IS:3025 (Part-7 and 8)-1984, SM 2160 C IS:3025 (Part-16)-1984, SM 2540 C IS:3025 (Part-10)-1984, SM 2130 B IS:3025(Part-11) 1983,4500 B IS:3025(Part-14) 1984, SM 2510 B IS:3025(Part-26,1,2,3)-1986 IS:3025-(Part-32,2)-1988 SM 4500 C1- B IS:3025(Part-60)/SM 4500 F- D	Qualitative 1-50 Pt-Co units Qualitative Qualitative 1 mg/L 0.1NTU 1-13 1 µS/cm 0.1mg/L 1mg/L 1.1 mg/L

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	Packaged Drinking Water/Packaged Natural Mineral Water Other than Packaged Drinking Water (Treated, Raw, Bore Well, Processed Water For Food Industry, DM Water and R.O Water	Alkalinity (P & m)	IS:3025(Part-23)-1986, SM 2320 B	1 mg/L
		Oxidisability	IS: 8467-1993(E)	Qualitative
		Total hardness	IS:3025(Part-21,2&3)-1983 SM 2340 B&C	1 .0 mg/L
		Phenolic compounds	IS:3025(Part-43) 1992, SM 5530 C	1.1mg/L
		Silica	IS:3025 (Part-35,3)-1988/ SM 4500-Si C	1.1 mg/L
		Nitrate	IS:3025(Part-34,3.3) - 1988/SM 4500 N03- B	1.1 mg/L
		Nitrite	IS: 3025(Part-34,4)-1988/ SM 4500 N02- B	0.01 mg/L
		Sulfate	IS:3025(Part-24,4)-1986/ SM 4500 SO4 2-E	0.1 mg/L

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	Packaged Drinking Water/Packaged Natural Mineral Water Other than Packaged Drinking Water (Treated, Raw, Bore Well, Processed Water For Food Industry, DM Water and R.O Water	Sulfide	IS:3025(Part-29,3)-1986 SM 4500 S2- D	0.05 mg/L
		Cyanide	IS:3025(Part-27,3)- 1986 / SM 4500-CN-,E	0.005 mg/L
		Calcium	IS:3025(Part-40, a)-1991/ SM 3500 Ca BI SM3 120/ EPA 200.7	1.0 mg/L
		Magnesium	IS:3025(Part-46, b)-1991 SM 3500 Mg B/SM 3 120/ EPA 200.7	1.0 mg/L
		Copper	IS : 3025 (part 42 b)-1992/ EPA 200.7/ SM 3120	0.005 mg/L
		Sodium & Potassium	IS: 3025(part 45 a,b) -1993/ SM 3120/ EPA 200.7	1.0 mg/L
		Anionic surface active agents (MBAS)	IS: 13428- 2005 SM 5540 C	0.1 mg/L
		Antimony	Annex G of 13428/SM 3120/ EPA 200.7	0.005 mg/L
		Arsenic	IS: 3025 (part 37)/SM 3 120/ EPA 200.7	0.01 mg/L

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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
	Packaged Drinking Water/Packaged Natural Mineral Water Other than Packaged Drinking Water (Treated, Raw, Bore Well, Processed Water For Food Industry, DM Water and R.0 Water	Manganese	IS: 3025(Part-59)	0.1 mg/L
			SM 3120/ EPA 200.7	0.005mg/L
		Mercury	IS 3025(Part-48)/ EPA 200.7	0.001 mg/L
		Cadmium	IS: 3025 (Part 41a)/ SM 3120/EPA 200.7	0.005mg/L
		Chromium	Annex J of IS 13428/ SM 3120/ EPA 200.7	0.005 mg/L
		Hexavalent chromium	SM 4500 Cr	0.05 mg/L
		Zinc	IS 3025(part 49)/ SM 3120/ EPA 200.7	0.01 mg /L
		Selenium	IS: 3025 (part-56)/ SM 3120/EPA 200.7	0.005 mg/L
	Boron	Annex H of IS:13428	0.2 mg/L	

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	Packaged Drinking Water/Packaged Natural Mineral Water Other than Packaged Drinking Water (Treated, Raw, Bore Well, Processed Water For Food Industry, DM Water and R.0 Water		SM 3120/EPA 200.7	0.01 mg/L
		Aluminium	IS: 3025 (part 55 b) SM 3120/ EPA 200.7	0.01 mg/L
		Lead	IS: 3025(part 47) / SM 3120/EPA 200.7	0.005 mg/L
		Cobalt	SM 3120/ EPA 200.7	0.005 mg/L
		Nickel	Annex L of IS:13428/ SM 3120/EPA 200.7	0.005 mg/L
		Barium	Annexure F of IS:13428	0.5 mg /L
			SM 3120/ EPA 200.7 IS 3025(Part-2)	0.01 mg /L
		Ammonium	SM 4500 NH3 ,F	0.1 mg/L
	Ammonia (as Total Ammonia- N)	IS 3025(Part-34)/ SM 4500 NH3-F	0.1mg/l	

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	Packaged Drinking Water/Packaged Natural Mineral Water Other than Packaged Drinking Water (Treated, Raw, Bore Well, Processed Water For Food Industry, DM Water and R.0 Water	Chloramines	IS: 3025 (Part 26)	0.05mg/l
		Mineral Oil	IS: 3025 (Part 39)	0.001 mg/L
		Silver	Annexure J of IS:13428/ SM 3120 /EPA 200.7	0.005 mg/L
		Iron	IS:3025 (Part-53) / EPA 200.7	0.01 mg/L
		Molybdenum	IS 3025(Part-2) EPA 200.7	0.005mg/l
b)	Raw. Treated, Bore Well and DrinkingWater	VOCs:Benzene Bromobenzene Bromochloro methane Bromo dichloromethane Bromoform n-Butyl benzene sec-Butylbenzene tert-Butyl benzene Carbon tetra chloride Chloro benzene Chloroform 2-Chlorotoluene 4-Chlorotoluene Dibromo chloro methane 1,2-Dibromo-3-chloro Propane 1,2-Dibromo ethane Dibromo methane 1,2-Dichloro benzene 1,3-Dichloro benzene	STP146 Based on EPA- 8260 APHA, 21st Ed.	0.1 µg/L

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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
	Raw. Treated, Bore Well and Drinking Water	1,4-Dichloro benzene 1,1 –Dichloro ethane 1,2-dichloro ethane 1,1 –Dichloro ethene cis- 1,2-Dichloro ethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1 -Dichloropropene cis-1,3-Dichloropropene trans -1,3-Dichloropropene Ethylbenzene Hexachloro butadiene Isopropyl benzene p-Isopropyl toluene Dichloromethane Naphthalene n-Propyl benzene Styrene 1,1,1,2-Tetra chloroethane 1,1,2,2-Tetra chloroethane Tetrachloroethene Toluene 1,2,3-Tri chlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Tri chloroethane 1,1,2-Tri chloro ethane Trichloroethene 1,2,3-Tri chloro propane 1,2,4-Tri methyl benzene 1,3,5- Tri methyl benzene	STP146 Based on EPA- 8260 APHA, 21st Ed.	0.1 µg/L

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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
	Raw. Treated, Bore Well and Drinking Water	o-Xylene m-Xylene p-Xylene Bromomethane chloroethane Chloromethane Dichlorodifluoromethane Trichloro fluoromethane Vinyl chloride	STP146 Based on EPA- 8260 APHA, 21st Ed.	0.2 µg/L
c)	Packaged Drinking water Polychlorinated biphenyls (PCBs)	Monochloro biphenyl Dichloro biphenyl Trichloro biphenyl Tetrachloro biphenyl Pentachloro biphenyl Hexachloro biphenyl Heptachloro biphenyl Octachloro biphenyl	STP No. 107 based on IS: 13428-2005 and APHA 21 st edition	0.01 µg/L
d)	Packaged Drinking water Polynuclear Aromatic Hydrocarbons (PAHs)	Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene	STP No.108 based on EPA- 8310 & APHA21 st edition 6440	0.01 µg/L

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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
	Packaged Drinking water Polynuclear Aromatic Hydrocarbons (PAHs)	Benz(a) anthracene Benzo(k) fluoranthene Benzo(b) fluoranthene Indeno(1,2,3-cd) pyrene Dibenz(a,h) anthracene , Benzo(g,h,i) Perylene Pyrene Chrysene Benzo(a)pyrene \ 	STP No.108 based on EPA- 8310 & APHA21 st edition 6440	0.01 µg/L
e)	Packaged Drinking water Pesticide Residues	o,p-DDE P,P-DDE o,p-DDD p,p-DDD o,p-DDT p,p-DDT alfa-HCH beta-HCH gamma-HCH(Lindane) delta-HCH alfa-Endosulfan beta-Endosulfan Endosulfan -sulfate Methyl -parathion Aldrin Dieldrin	STP No. 102 based on USEPA &AOAC 18th Edition methods given in IS: 14543-2004 & IS: 13428-2005	0.01 µg/L

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f)	Packaged Drinking water Pesticide Residues	Monocrotophos Ethion, Chlorpyrifos Phorate Phorate –sulphoxide Phorate -sulphone 2,4-D Butachlor Isoproturon Alachlor Atrazine Methyl –paraoxon Malathion Malaaxon	STP No. 101 based on USEPA &AOAC 18th Edition methods given in IS: 14543-2004 & IS: 13428-2005	0.01 µg/L
g)	Ultraviolet water disinfection System	Turbidity Suspended particles Adsorption of Activated Carbon(Chlorine test)	IS 14724 - 1999 As per (6.2.2.1) As per CI. 6.2.2.2 , IS 14724 – 1999 As per CI. 6.2.2.4 , IS 14724 – 1999	1 - 7500 NTU Qualitative 0.2 - 10 mg/L

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