

<b>Laboratory</b>	<b>Export Inspection Agency – Kochi, Laboratory, 27/1767 A, Shipyard Quarters Road, Panampilly Nagar (South), Kochi, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Fish &amp; Fishery Products</b>	<b>Metal Residues</b>		
	<b>Meat &amp; Meat Products</b>	Cadmium	AOAC (19 <sup>th</sup> Edition): 2012, 999.11 Chapter 09, 9.01.09	0.15 mg/kg to 1.0 mg/kg
	<b>Egg Products</b>	Lead	AOAC (19 <sup>th</sup> Edition): 2012, 972.23 Chapter 09, 9.02.17	0.3 mg/kg to 1.5 mg/kg
	<b>(Fresh, Frozen, Dried &amp; Chilled)</b>	Mercury	AOAC (19 <sup>th</sup> Edition): 2012, 977.15 Chapter 09, 9.02.23	0.5 mg/kg to 10 mg/kg
		Arsenic	AOAC (19 <sup>th</sup> Edition): 2012, 986.15 Chapter 09, 9.01.01	0.2 mg/kg to 100 mg/kg
		<b>Pesticides Residues</b>		
		Organo Chlorine Pesticides	AOAC (19 <sup>th</sup> Edition): 2012, 2007.01 Chapter 10, 10.1.04	0.15 mg/kg to 0.5 mg/kg
		Aldrin		0.15 mg/kg to 0.5 mg/kg
		Dieldrin		0.15 mg/kg to 0.5 mg/kg
		Endrin		0.15 mg/kg to 0.5 mg/kg
		Endosulphan, (isomers)		0.15 mg/kg to 0.5 mg/kg
		DDT		0.15 mg/kg to 0.5 mg/kg
		BHC (isomers)		0.15 mg/kg to 0.5 mg/kg
		Hepta Chlor		0.15 mg/kg to 0.5 mg/kg
		Pendimethalin		0.005 mg/kg to 0.1 mg/kg

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	<b>Fish &amp; Fishery Products</b>	<b>Antibiotic Residues</b>		
		Chloramphenicol	EIA/Kochi/Lab/SOP/Chem/97 Issue No: 2 Issue Date. 10.05.2012	0.15 µg/kg to 5.0 µg/kg
	<b>Meat &amp; Meat Products</b>			
	<b>Egg Products</b>	Nitrofurans Metabolites	EIA/Kochi/Lab/SOP/Chem/98 Issue No: 01 Issue Date. 09.06.2010	
	<b>(Fresh, Frozen, Dried &amp; Chilled)</b>			
		AMOZ		0.2 µg/kg to 5.0 µg/kg
		AOZ		0.2 µg/kg to 5.0 µg/kg
		SEM		0.2 µg/kg to 5.0 µg/kg
		AHD		0.2 µg/kg to 5.0 µg/kg
		Oxytetracycline, Tetracycline, Chlortetracycline (including their epimers)	AOAC (19 <sup>th</sup> Edition): 2012, 986.15 Chapter 23, 23.01.07;	0.1 mg/kg to 0.5 mg/kg
		Sulphonamides	EIA/Kochi/Lab/SOP/Chem/123 Issue No: 01 Issue Date. 11.07.2015	0.1 mg/kg to 0.5 mg/kg
		Sulphamethoxazole		
		Sulphamethizole		
		Sulphadiazine		
		Oxolinic acid	EIA/Kochi/Lab/SOP/Chem/85 Issue No: 03 Issue Date. 05.07.2012	50 µg/kg to 500 µg/kg

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	<b>Fish &amp; Fishery Products</b>	Nitroimidazoles	EIA/Kochi/Lab/SOP/Chem/97 Issue No: 02 Issue Date. 10.05.2015	0.2 µg/kg to 5.0 µg/kg
	<b>Meat &amp; Meat Products</b>	Metronidazole (MNZ)		0.2 µg/kg to 5.0 µg/kg
		Dimetridazole (DMZ)		0.2 µg/kg to 5.0 µg/kg
	<b>Egg Products</b>	Ronidazole (RNZ)		0.2 µg/kg to 5.0 µg/kg
	<b>(Fresh, Frozen, Dried &amp; Chilled)</b>	Ipronidazole (IPOH)		0.2 µg/kg to 5.0 µg/kg
	<b>Food Additives</b>			
		Sulphite as SO <sub>2</sub>	AOAC (19 <sup>th</sup> Edition): 2012; 962.16, Chapter 47; 47.3.39	10 mg/kg to 100 mg/kg
		Phosphate as P <sub>2</sub> O <sub>5</sub>	AOAC (19 <sup>th</sup> Edition): 2012; 995.11; Chapter 45; 45.1.33	500 mg/kg to 6000 mg/kg
		Ethoxyquin	EIA/Kochi/Lab/SOP/Chem/101 Issue No: 02 Issue Date 05.07.2013	5 µg/kg to 100 µg/kg
	<b>Dyes</b>			
		Malachite green	EIA/Kochi/Lab/SOP/Chem/121 Issue No: 01 Issue Date 23.07.2015	0.5 µg/kg to 10 µg/kg
		Leuco Malachite green	EIA/Kochi/Lab/SOP/Chem/121 Issue No: 01 Issue Date 23.07.2015	0.7 µg/kg to 10 µg/kg
		Crystal Violet	EIA/Kochi/Lab/SOP/Chem/12 Issue No: 01 Issue Date 23.07.2015	0.25 µg/kg to 10 µg/kg
		Leuco Crystal Violet	EIA/Kochi/Lab/SOP/Chem/121 Issue No: 01 Issue Date. 23.07.2015	0.4 µg/kg to 10 µg/kg

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<b>2.</b>	<b>Fish &amp; Fishery Products</b>	Aflatoxin		
		B1	EIA/Kochi/Lab/SOP/Chem/100	1.0 µg/kg to 50 µg/kg
		B2	Issue No: 03 Issue Date 05.07.2012	1.0 µg/kg to 50 µg/kg
		<b>Spoilage Indicators</b>		
		Total Volatile Base Nitrogen (TVBN) as N	EIA/Kochi/Lab/SOP/Chem/08 Issue No: 02 Issue Date. 28.10.2008	(5 mg to 35 mg)/100 g
		Trimethyl amine (TMA) as N	EIA/Kochi/Lab/SOP/Chem/08 Issue No: 02 Issue Date. 28.10.2008	(5 mg to 35 mg)/100g
<b>3.</b>	<b>Dry Fish</b>	Histamine	EIA/Kochi/Lab/SOP/Chem/87 Issue No: 03 Issue Date. 05.07.2012	25 mg/kg to 500 mg/kg
		Moisture	IS 14950: 2001	(1 g to 35 g)/100 g
<b>4.</b>	<b>Canned Fish</b>	Acid insoluble ash	IS 14950: 2001	(0.01 g to 2.0 g)/ 100 g
		Acidity in Brine	DGHS Lab Manual 6, 2005	(0.1 g to 10 g)/100 g
<b>5.</b>	<b>Milk Products</b>	Moisture	IS 11623:2008	(0.05 g to 8 g)/100 g
		Titration Acidity	IS 1165:2002 Annex B	(0.01 g to 3 g)/100 g
		Total Ash	IS 1165:2002 Annex A	(0.01 g to 10 g)/100 g
<b>6.</b>	<b>Common Salt</b>	Purity	IS 797: 1982 (RA 1997)	(10 g to 100 g)/100 g

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<b>7.</b>	<b>Edible Oils (Vegetable Refined &amp; Crude)</b>	Refractive Index	IS 548 (Part 1): 1964 (RA 2010)	1.33 to 1.80
		Saponification value	IS 548 (Part 1): 1964 (RA 2010)	50 to 300
		Iodine Value	IS 548 (Part 1): 1964 (RA 2010)	10 to 250
		Unsaponifiable matter	IS 548 (Part 1): 1964 (RA 2010)	(0.01 g to 3 g)/100 g
		Acid value	IS 548 (Part 1): 1964 (RA 2010)	(0.1 g to 5 g)/100 g
		Argemone oil	IS 548 (Part 2): 1976	Qualitative (Positive/ Negative)
		Mineral Oil	IS 548 (Part 2): 1976	Qualitative (Positive/ Negative)
<b>8.</b>	<b>Miscellaneous (Feed)</b>			
<b>a.</b>	<b>Fish Meal</b>	Ethoxyquin	AOAC (19 <sup>th</sup> Edition): 2012, 996.13 Chapter 4; 4.10.03	25 mg/kg to 500 mg/kg
		Moisture	IS 548 (Part 1): 1964	(0.1 g to 10 g)/100 g
		Protein (crude)	IS 7874 (Part 1): 1975 (RA 1995)	(1 g to 90 g)/100 g
		Fat	IS 7874 (Part 1): 1975 (RA 1995)	(0.05 g to 50 g)/100 g
		Total Ash	IS 7874 (Part 1): 1975 (RA 1995)	(1.0 g to 25 g)/100 g
		Sand/ Silica	IS 7874 (Part 1): 1975 (RA1995)	(0.1 g to 5.0 g)/100 g
		Salt	EIA/Kochi/Lab/SOP/Chem/103 Issue No: 01 Issue Date. 05.07.2012	(0.1 g to 5.0 g)/100 g

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	<b>Fish Meal</b>	Cadmium	AOAC (19 <sup>th</sup> Edition): 2012, 999.11 Chapter 09, 9.01.09	0.6 mg/kg to 2.0 mg/kg
		Lead	AOAC (19 <sup>th</sup> Edition): 2012, 972.23 Chapter 09, 9.02.17	0.7 mg/kg to 5.0 mg/kg
		Mercury	AOAC (19 <sup>th</sup> Edition): 2012, 977.15 Chapter 09, 9.02.23	0.3 mg/kg to 10 mg/kg
		Arsenic	AOAC (19 <sup>th</sup> Edition): 2012, 986.15 Chapter 09, 9.01.01	0.2 mg/kg to 100 mg/kg
		Histamine	EIA/Kochi/Lab/SOP/Chem/87 Issue No: 03 Issue Date. 05.07.2012	50 mg/kg to 500 mg/kg
		Total Volatile Base Nitrogen (TVBN) as N	EIA/Kochi/Lab/SOP/Chem/109 Issue No: 01 Issue Date. 05.07.2012	(1 mg to 150 mg)/100 g
<b>b.</b>	<b>Fish Oil</b>	Moisture	IS 548 (Part 1): 1964	(0.1 g to 10 g)/100 g
		Anisidine value	ISO 6885: 2006 E	1 to 60
		Impurities	IS 548 (Part 1): 1964	(0.01 g to 10 g)/100 g
		FFA/ Acid Value	IS 548 (Part 1): 1964	(0.1 g to 5 g)/100 g
		Peroxide value	IS 548 (Part 1): 1964	(0.1 meq to 20 meq)/kg
		Unsaponifiable matter	IS 548 (Part 1): 1964	(0.01 g to 3 g)/100 g
		Iodine Value	IS 548 (Part 1): 1964	10 to 250
		Ethoxyquin	AOAC (19 <sup>th</sup> Edition): 2012 996.13 Chapter 4;4.10.03	25 mg/kg to 500 mg/kg

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<b>9.</b>	<b>Spices &amp; Condiments</b>	Light Berries/ light seeds	USFDA/ASTA's clean spices Manual Page No: 5-6	(0.01 g to 5 g)/100 g
	<b>(Whole)</b>	Insect infested/ Moldy Berries/ Insect damaged matter/ damaged, discolored fruit, pinhead or broken berries, Defective seed (fennel)	DGHS Lab Manual 10, 2005	(0.01 g to 5 g)/100 g
		Live/Dead Insects	EIA/Kochi/Lab/SOP/Chem/11 Issue No: 01 Issue Date. 28.10.2008	0.01 to 10 (Count)
		Excreta mammalian	EIA/Kochi/Lab/SOP/Chem/12 Issue No: 01 Issue Date. 28.10.2008	(0.01 mg to 10 mg)/454 g
		Excreta other than Mammalian	EIA/Kochi/Lab/SOP/Chem/13 Issue No: 01 Issue Date. 28.10.2008	(0.01 mg to 10 mg)/454 g
		Light Filth	AOAC (19 <sup>th</sup> Edition): 2012, 972.40 Chapter 16, 16.14.23	0 to 500 (Count)
		Heavy filth	AOAC (19 <sup>th</sup> Edition): 2012, 972.58: Chapter 16, 16.14.24	(0.01 g to 5 g)/100 g
		Extraneous matter (Sifting & picking)	EIA/Kochi/Lab/SOP/Chem/16 Issue No: 01 Issue Date. 28.10.2008	(0.01 g to 1.0 g)/100 g

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	<b>Spices &amp; Condiments</b>	Empty & Malformed capsules by count (Cardamom) Unripe and marked fruit (Chilli) Broken fruit seed & fragment Tendrils, mother clove Khokar clove, Headless cloves, Split fruit (coriander) Edible seed other than fennel seeds	DGHS Lab Manual 10, 2005	(0.01 g to 50 g)/ 100 g
<b>10.</b>	<b>Spices &amp; Condiments</b>	Moisture	AOAC (19 <sup>th</sup> Edition): 2012, 986.21 Chapter 43; 43.1.04	(0.1 g to 15 g)/100 g
	<b>(Whole/ Ground &amp; Masala Mixes)</b>	Total Ash	AOAC (19 <sup>th</sup> Edition): 2012, 941.12 Chapter 43; 43.1.05	(0.01 g to 10 g)/100 g
		Acid Insoluble Ash	AOAC (19 <sup>th</sup> Edition): 2012, 941.12 Chapter 43; 43.1.05	(0.01 g to 2 g)/100 g
		Water Insoluble Ash	IS 1797: 1985 (RA 2009)	(0.01 g to 2 g)/100 g
		Crude Fibre	AOAC (19 <sup>th</sup> Edition): 2012, 920.169 Chapter 43; Chapter 43; 43.1.12	(0.1 g to 20 g)/100 g
		Volatile oil	AOAC (19 <sup>th</sup> Edition): 2012, 962.17 Chapter 43 43.1.14	(0.5 g to 6 g)/100 g
		<b>Aflatoxin</b>	ASTA Analytical Manual, (4 <sup>th</sup> Edition): 1997	
		B1		1.0 µg/kg to 50 µg/kg
		B2		1.0 µg/kg to 50 µg/kg
		G1		1.0 µg/kg to 50 µg/kg



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	<b>Whole/ Ground &amp; Masala Mixes</b>	G2 <b>Pesticides Residues</b>		1.0 µg/kg to 50 µg/kg
		Organo Chlorine Pesticides	AOAC (19 <sup>th</sup> Edition): 2012, 2007.01, Chapter 10, 10.1.04	
		Aldrin		0.15 mg/kg to 0.5 mg/kg
		Dieldrin		0.15 mg/kg to 0.5 mg/kg
		Endrin		0.15 mg/kg to 0.5 mg/kg
		Endosulphan (isomers)		0.15 mg/kg to 0.5 mg/kg
		DDT		0.15 mg/kg to 0.5 mg/kg
		BHC (isomers)		0.15 mg/kg to 0.5 mg/kg
		Hepta Chlor		0.15 mg/kg to 0.5 mg/kg
<b>11.</b>	<b>Dried Whole Ginger (Spices)</b>	Extraneous Matter	USFDA/ASTA's clean spices Manual Chapter 3/ IS 1797: 1985 (RA 2009)	(0.001 g to 5 g)/100 g
		SO <sub>2</sub> contents for bleached varieties	AOAC (19 <sup>th</sup> Edition): 2012, 962.16 Chapter 47; 47.3.39	10 mg/kg to 100 mg/kg
<b>12.</b>	<b>Tea/ Coffee and their Products</b>	Total Ash	DGHS Lab. Manual 4, 2005 / IS 13854: 1994 (RA 1999)	(0.1 g to 10 g)/100g
		Water Soluble Ash	DGHS Lab. Manual 4, 2005 / IS 13855: 1993 (RA 1998)	(1 g to 70 g)/100 g
		Acid Insoluble Ash	DGHS Lab. Manual 4, 2005 / IS 13857: 1993	(0.01 g to 2 g)/100 g

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	<b>Tea/ Coffee and their Products</b>	Alkalinity of Water Soluble ash	DGHS Lab. Manual 4, 2005 / IS 13856: 1993 (RA 1998)	(1.0 – 3.0g)/100 g for Tea (3.5– 5.0g)/100 g for Coffee
		Water Extract	DGHS Lab. Manual 4, 2005 / IS 13862: 1999	(0.1 g to 50 g)/100 g
		Crude Fibre	DGHS Lab. Manual 4, 2005 / IS 10226 (Part 1): 1982 (RA 2001)	(0.1 g to 25 g)/100 g
		<b>Aflatoxin</b>	ASTA Analytical Manual, (4 <sup>th</sup> Edition): 1997	
		B1		2.5 µg/kg to 50 µg/kg
		B2		2.5 µg/kg to 50 µg/kg
		G1		2.5 µg/kg to 50 µg/kg
		G2		2.5 µg/kg to 50 µg/kg
		Caffeine (In case of Coffee, Tea)	EIA/Kochi/Lab/SOP/Chem/122 Issue No: 01 Issue Date. 18.02.2013	(0.5 g to 10 g)/100 g
		Ochratoxin A	AOAC (19 <sup>th</sup> Edition): 2012, 2004.10, Chapter 49,49.6.02A	1 µg/kg to 50 µg/kg
		<b>Metal Residues</b>		
		Lead	AOAC (19 <sup>th</sup> Edition): 2012, 999.11 Chapter 09, 9.01.09	2 mg/kg to 10 mg/kg
		Copper	AOAC (19 <sup>th</sup> Edition): 2012, 971.20 Chapter 09, 9.1.07	2.5 mg/kg to 10 mg/kg
		Iron	AOAC (19 <sup>th</sup> Edition): 2012, 999.11 Chapter 09, 9.01.09	2.5 mg/kg to 10 mg/kg

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	<b>Tea/ Coffee and their Products</b>	Zinc	AOAC (19 <sup>th</sup> Edition): 2012, 999.11 Chapter 09, 9.01.09	0.5 mg/kg to 3 mg/kg
		Cadmium	AOAC (19 <sup>th</sup> Edition): 2012, 999.11 Chapter 09, 9.01.09	0.5 mg/kg to 3 mg/kg
		<b>Pesticides Residues</b>		
		Organo Chlorine Pesticides: Aldrin, Dieldrin, Endrin, Endosulphan (isomers), DDT, BHC (isomers), Heptachlor	AOAC 2007.01: 2012; Chapter 10, 10.1.04,	0.15 mg/kg to 0.5 mg/kg
<b>13.</b>	<b>Cereals, Pulses and their Products (like; Wheat Flour, Maida, Semolina, Besan, Barley Powder, Corn Flour, Corn Flakes, Custard Powder, Macaroni Products, Malted Milk food, Malt Based Food, Rolled Oats, Soya Flour, Ground Nut Flour, Sesame Flour, Coconut Flour, Food Grains)</b>	Moisture	AOAC (19 <sup>th</sup> Edition): 2012, 923.03	(0.1 g to 15 g)/100 g
		Acid insoluble ash	Chapter 32.1.03; 925.10 & Chapter 32.1.05	(0.01 g to 5 g)/100 g
		Total Ash		(0.01 g to 10 g)/100 g
		Crude fibre	AOAC (19 <sup>th</sup> Edition): 2012, 920.85 Chapter 32.1.13	(0.1 g to 20 g)/100 g
		Protein	AOAC (19 <sup>th</sup> Edition): 2012, 920.87 Chapter 32.1.22	(0.1 g to 20 g)/100 g
		Fat	AOAC (19 <sup>th</sup> Edition): 2012, 922.06 Chapter 32.1.14	(0.1 g to 10.0 g)/100 g
		Gluten	DGHS Lab. Manual 3, 2005 (Cereals & Pulses)	(0.1 g to 20 g)/100 g
		Alcoholic acidity	DGHS Lab. Manual 3, 2005 (Cereals & Pulses)	0.05 % to 5 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>14.</b>	<b>Food Grains (Cereals, Pulses and their Products) &amp; Nuts</b>	Foreign matter	DGHS Lab. Manual 3, 2005	(0.0 to 10.0 g)/100 g
		Other edible grains	DGHS Lab. Manual 3, 2005	(0.0 g to 10.0 g)/100 g
		Damaged grains	DGHS Lab. Manual 3, 2005	(0.0 to 10 g)/100 g
		Aflatoxin	AOAC (19 <sup>th</sup> Edition): 2012, 991.31 Chapter 49.2.18;	
		B1		1.0 µg/kg to 50 µg/kg
		B2		1.0 µg/kg to 50 µg/kg
		G1		1.0 µg/kg to 50 µg/kg
<b>15.</b>	<b>Bakery &amp; Confectionary Products Including Raw, Cooked/ Processed Food Products (like Fruits and Vegetable Products, Fruit Beverages/ Juices/ Concentrates, Jam, Juice, Soups, Sauce, Pickles, Biscuits) &amp; Ready to Eat Foods</b>	Acid Insoluble ash	DGHS Lab. Manual 3, 2005	(0.01 g to 5 g)/100 g
		Acidity of extracted fat	DGHS Lab. Manual 3, 2005	(0.01 g to 5.0 g)/100 g
		Moisture	DGHS Lab. Manual 3, 2005	(0.01 g to 10.0 g)/100 g
		Fat	DGHS Lab. Manual 3, 2005	(0.01 g to 10 g)/100 g (10 g to 50 g)/100 g
		Ash	DGHS Lab. Manual 3, 2005	(0.01 g to 25 g)/100 g
		Protein	DGHS Lab. Manual 3, 2005	(0.1 g to 5 g)/100 g
		Sodium Chloride/ Salt (Brine)	DGHS Lab. Manual 3, 2005	(0.5 g to 20 g)/100 g
		pH	DGHS Lab. Manual 3, 2005	0.01 to 10
		Total soluble solids	AOAC (19 <sup>th</sup> Edition): 2012, 920.151, Chapter. 37.1.12	(II.01 g to 50 g)/ 100 g (50 g to 80 g)/ 100 g
		Acidity (Titratable)	AOAC (19 <sup>th</sup> Edition): 2012, 942.15 Chapter. 37.1.37	(0.001 g to 5 g)/100 g

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>11.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water (used in Food Processing Industry)</b>	Colour	APHA (22 <sup>nd</sup> Edition): 2012, 2120B Chapter 2.6	3 to 250 Pt-Co unit
		Turbidity	APHA (22 <sup>nd</sup> Edition): 2012, 2130B Chapter 2.13	10 NTU to 1000 NTU
		Total solids	IS 3025 (Part 16): 1984	10 mg/l to 1000 mg/l
		pH	IS 3025 (Part 11): 1983	0.1 to 10
		Nitrate as N	APHA (22 <sup>nd</sup> Edition): 2012, 4500 NO <sub>3</sub> B; Chapter 4-122	0.2 mg/l to 10.2 mg/l
		Manganese	APHA (22 <sup>nd</sup> Edition): 2012, 3030 E; Chapter 3.9 /3.18	0.2 mg/l to 1 mg/l
		Copper	APHA (22 <sup>nd</sup> Edition): 2012, 3120B Chapter. 3.9 /3.18	2.0 mg/l to 10 mg/l
		Zinc	APHA (22 <sup>nd</sup> Edition): 2012, 3120B; Chapter. 3.9 /3.18	0.1 mg/l to 3 mg/l
		Fluoride	APHA (22 <sup>nd</sup> Edition): 2012, 4500 F D; Chapter. 4.87	0.02 mg/l to 2 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 1999)	0.1 mg/l to 250 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	4 mg/l to 250 mg/l
		Magnesium	IS 3025 (Part 46): 1994 (RA 2003)	1 mg/l to 100 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
	<b>Water (used in Food Processing Industry)</b>	Total Hardness	IS 3025 (Part 21): 2009	1 mg/l to 600 mg/l
		Arsenic	APHA (22 <sup>nd</sup> Edition): 2012, 3114 B; Chapter. 3.34	3 µg/l to 100 µg/l
		Cadmium	APHA (22 <sup>nd</sup> Edition): 2012, 3030 E / 3111 B; Chapter. 3.9 /3.18	0.1 mg/l to 3 mg/l
		Cyanide	APHA (22 <sup>nd</sup> Edition): 2012, 4500 E; Chapter. 4.44 (colorimetric) with HACH Kit	0.002 mg/l to 0.240 mg/l
		Chromium	APHA (22 <sup>nd</sup> Edition): 2012, 3030 E / 3111 B; Chapter. 3.9 /3.18	0.1 mg/l to 1.2 mg/l
		Mercury	APHA (22 <sup>nd</sup> Edition): 2012, 3112 B; Chapter 3.22 /3.23	50 µg/l to 200 µg/l
		Lead	APHA (22 <sup>nd</sup> Edition): 2012, 3030 E / 3111 B; Chapter. 3.9 /3.18	0.1 mg/l to 2 mg/l
		Nickel	APHA (22 <sup>nd</sup> Edition): 2012, 3030 E/3111 B; Chapter 3.9 /3.18	0.1 mg/l to 1.2 mg/l
		Iron	APHA (22 <sup>nd</sup> Edition): 2012, 3030 E/3111 B; Chapter 3.9 / 3.18	2 mg/l to 10 mg/l
		Selenium	APHA (22 <sup>nd</sup> Edition): 2012, 3114 B; Chapter 3.34	0.03 mg/l to 1.0 mg/l
		Phenolic substances	IS 3025 (Part 43): 1992 (RA 1998)	0.001 mg/l to 0.02 mg/l
		Oxidisability	IS 3025 (Part 58): 2006	1 mg/l to 5 mg/l

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