

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **I. FOOD & AGRICULTURAL PRODUCTS**

<b>1. Animal Feed, Poultry Feed, Mineral Mixture</b>	Moisture		IS 7874(P-1)-1975 RA 2004 amd-2/SP-18(P-1)-1980	0.1-20%
	Crude Protein (N x 6.25)		IS 7874(P-1)-1995 RA 2004 amd-2	0.1-60%
	Crude Fiber		IS 7874(P-1)-1975 RA 2004 amd-2	0.01-20%
	Crude Fat		IS 7874(P-1)-1975 RA 2004 amd-2	0.05-10%
	Acid Insoluble Ash		IS 7874(P-1)-1975 RA 2004 amd-2	0.01-10%
	Common Salt(as Sodium Chloride)		IS 7874(P-2)-1975 RA 2004 amd-2	0.05-10%
	Phosphorus		IS 7874(P-2)-1975 RA 2004 amd-2	0.1-5%
	Calcium		IS 7874(P-2)-1975 RA 2004 amd-2	0.6-25%
	Iron		IS : 15121 -2002, RA 2008	10-50 mg/kg
Iodine		IS 7874(P-2)-1975 RA 2004 amd-2	5-500 mg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 144</b>

<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>Animal Feed, Poultry Feed, Mineral Mixture</b>	Copper	IS : 15121 -2002, RA 2008	1-100 mg/kg
			DTH-INS-SOP-11 Issue No. & Date 01 & 05.04.2011	0.05- 2.5 µg/g
		Manganese	IS : 15121 -2002, RA 2008	1-100 mg/kg
			DTH-INS-SOP-11 Issue No. & Date 01 & 05.04.2011	0.05- 2.5 µg/g
		Cobalt	IS : 7874 (P-2)-1975, RA 2009	1-100 mg/kg
			DTH-INS-SOP-11 Issue No. & Date 01 & 05.04.2011	0.05- 2.5 µg/g
		Fluoride	IS 7874(P-2)-1975 RA 2009	10-500 mg/kg
		Zinc	IS : 15121-2002, RA 2008	1-100 mg/kg
			DTH-INS-SOP-11 Issue No. & Date 01 & 05.04.2011	0.05- 2.5 µg/g
		Total Ash	IS 7874(P-1)-1975 RA 2004 amd-2	0.01-20%
		Vitamin-D <sub>3</sub>	AOAC 980.26/ AOAC 985.27 19 <sup>th</sup> edition IS 2052:2009	3-200 mg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>3 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>2.</b>	<b>Oils, Fats and Related Products</b>	Moisture and Insoluble Impurities	IS 548 (P-1)-1964 RA 2006 amd-5	0.05 – 10 %
		Saponification Value	IS 548 (P-1)-1964 RA 2006 amd-5	100 – 250
		Acid Value	IS 548 (P-1)-1964 RA 2006 amd-5	0.01-99.9
		Unsaponifiable Matter	IS 548 (P-1)-1964 RA 2006 amd-5	0.1 – 5 %
		Flash Point	IS 1448 (P-21)-1992 RA 2003	10 – 360°C
		Specific Gravity	IS 548 (P-1)-1964 RA 2006 amd-5	0.6 – 1.1
		Bellier Turbidity Temperature	IS 548 (P-2)-1996 RA 2006 amd-7	10 – 50°C
		Titre of Fatty Acids	IS 548 (P-1)-1964 RA 2006 amd-5	5 – 60°C
		Melting Point	IS 548 (P-1)-1964 RA 2006 amd-5	20 – 80°C
		Peroxide Value	IS 548 (P-1)-1964 RA 2006 amd-5	0.2-80 meq/1000g

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 144</b>

<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>Oils, Fats and Related Products</b>	Nickel	IS 10633 –1999 RA 2009	1-100 mg/kg
			DTH-INS-SOP-12 Issue No. &Date 01&05.04.2011	0.05- 2.5 µg/g
		Butyro- refractometer reading at 40°	IS 548 (P-I)-1964, RA 2006/ DGHS Lab manual-2:2012	0.1-100.0
		Refractive index at 40°C	IS 548 (P-I)-1964, RA 2006/ DGHS Lab manual-2:2012	1.333 - 1.4895
		Polenske value	IS 548 (P-I)-1964, RA 2006/ DGHS Lab manual-2:2012	1 to 20
		Test for sesame oil (Baudouins test)	IS 548(P-2)-1976 RA 2006/ DGHS Lab manual-2:2012	Present/Absent
		Test for cotton seed oil (Halphen test)	IS 548(P-2)-1976, RA 2006/DGHS Lab manual-2:2012	Present/Absent
		Test for Linseed Oil (Hexabromide test)	IS 548(P-2)-1976, RA 2006/DGHS Lab manual-2:2012	Present/Absent
		Polybromide test for mustard oil	IS 548(P-2)-1976, RA 2006 / DGHS Lab manual-2:2012	Present/Absent
	Tests for presence of mineral oil	IS 548(P-2)-1976, RA 2006 / DGHS Lab manual-2:2012	Present/Absent	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 144</b>

<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>Oils, Fats and Related Products</b>	Test for presence of castor oil	IS 548(P-2)-1976 , RA 2006/ DGHS Lab manual-2:2012	Present/Absent
		Test for presence of Argemone oil	IS 548(P-2)-1976, RA 2006 / DGHS Lab manual-2:2012	Present/Absent
		Test for presence of Hydrocyanic Acid	IS 548(P-2)-1976 , RA 2006/ DGHS Lab manual-2:2012	Present/Absent
		Test for Rancidity	IS 548(P-2)-1976 , RA 2006/ DGHS Lab manual-2:2012	Present/Absent
<b>3.</b>	<b>Food and Agricultural Products (Grains and Pulses, Rice, Wheat, Wheat Flour, Maize, Biscuits, Bread &amp; other Bakery Products, Oil Seed</b>	<b>Chemical Examination of Food Grains</b>		
		a) Moisture content	IS 4333(P-II)-2002 IS 3579-1966 RA 2006 /	0.01 – 30 %
		b) Acid Value of Extracted Oil/ Acidity of extracted fat	IS : 1011 – 2002 amd-1 IS 3579 –1966 RA 2006 / IS : 1011 – 2002 amn-1, DGHS Lab manual-3:201	0.01 – 30 %
		<b>Physical Examination of Food Grains – Refraction</b>		
		a) Damaged & Weevilled Seed of Kernels/grains	IS 4333 (P-1)-1996 RA 2001 IS 2813-1995 RA 2005 amd-1	0 – 10 %
		b) Slightly damaged Seeds or Kernels/grains	IS 4333 (P-1)-1996 RA 2001 IS 2813-1995 RA 2005 amd-1	0 – 10 %
		c) Split and Broken Kernels/grains	IS 4333 (P-1)-1996 RA 2001 IS 2813-1995 RA 2005 amd-1	0 – 10 %

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>6 of 144</b>

<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>Food and Agricultural Products (Grains and Pulses, Rice, Wheat, Wheat Flour, Maize, Biscuits, Bread &amp; other Bakery Products, Oil Seed</b>	d) Shriveled and Immature Seeds and Kernels/grains	IS 4333 (P-1)-1996 RA 2001, IS 2813-1995 RA 2005 amd-1	0 – 10 %
		e) Impurities	IS 4333 (P-1)-1996 RA 2001 IS 2813-1995 RA 2005 amd-1	0 – 10 %
		f) Dust	IS 4333 (P-1)-1996 RA 2001 IS 2813-1995 RA 2005 amd-1	0 – 5 %
		g) Other Seeds / other edible grains	IS 4333 (P-1)-1996 RA 2001 IS 2813-1995 RA 2005 amd-1	0 – 5 %
		h) Acid Insoluble Ash	IS 1011-2002/ IS 1009-1979 RA 2000, IS 1155:1968	0.01 – 20 %
		i) Ash	IS 1011-2002/ IS 1009-1979 RA 2000, IS 1155:1968	0.01 – 20 %
		j) Crude Fiber	IS 1011-2002/ IS 1009-1979 RA 2000, IS 1155:1968	0.01 – 30 %
		k) Calorific Value	IS 14433-2007 by calculation	50 – 900 k cal/100gm
		l) Fat	IS 4684-1975 RA 2005 amd.2/ AOAC-922.06 19 <sup>TH</sup> Edition	0.01 – 50 %

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>7 of 144</b>

<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>Food and Agricultural Products (Grains and Pulses, Rice, Wheat, Wheat Flour, Maize, Biscuits, Bread &amp; other Bakery Products, Oil Seed</b>	m) Gluten	IS 1155-1968 RA 2005 amd-3/ IS 1009-1979 RA 2000	0.5 – 20 %
		n) Mass of 100 ml Grains	IS 4333-1996 (p-3) RA 2001	1 – 900 g
		o) pH	IS 1483-1988 RA 2005 amd-1	1 – 13
		p) Protein	IS 7219-1973 RA 2005	0.1 – 50%
		q) Reducing Sugar	IS 4079-1967 RA 2000 amd-1, DGHS Lab manual-3:2012	0.1 – 50%
		Oil Content (on 5% basis), % by mass	IS 3579-1966 RA 2006	0.1-50 %
	Free fatty acids (as Oleic acid), % by weight	IS 548(P-1)1964 RA 2006	0.01-40%	
4.	<b>Fruit &amp; vegetables products ( Fresh &amp; Processed), Thermally processed Products, Sauces, Paste, Jam, Jelly, Fruit Juices, Non alcoholic beverages, Canned Products</b>	Acidity	IS : 13844 – 2003 / DG HS Lab manual:5:2012	0.1-50%
		TSS (Soluble Solids), Brix	IS : 13815 – 1993 RA – 2003/ DG HS Lab manual:5:2012	1 – 80 %
		Salt (as NaCl)	IS : 2860 – 1964 RA – 2008/ DG HS Lab manual:5:2012	0.1 – 25 %
		Copper (as Cu)	IS : 2860 – 1964 RA – 2008 AOAC 999.11,19 <sup>TH</sup> Ed	1-100mg/kg
			DTH-INS-SOP-13 Issue No & date 01& 01.04.2011	0.05-2.5mg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>8 of 144</b>

<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>Fruit &amp; vegetables products ( Fresh &amp; Processed), Thermally processed Products, Sauses, Paste, Jam, Jelly, Fruit Juices, Non alcoholic beverages, Canned Products</b>	Aluminum(as Al)	AOAC 999.11 19 <sup>TH</sup> Edition	1-100mg/kg
			DTH-INS-SOP-13 Issue No & date 01& 01.04.2011	0.05-2.5mg/kg
		Calcium	IS : 2860 – 1964 RA – 2008 AOAC 985.35 19 <sup>TH</sup> Edition	5 – 500 mg/kg 5-20 mg/kg
		Drained weight	IS 2860-1964 RA 2008/ DGHS Lab Manual-5:2012	10 -99%
		Synthetic Colour	DGHS Lab Manual -5:2012	Qualitative test Present/Absent
		Added Nutritive Sweetener saccharine	DGHS Lab Manual -5:2012	1 - 5000mg/kg
		Fruit content	DGHS Lab Manual -5:2012	1-60%
		Moisture	DGHS Lab Manual -5:2012	0.1-80%
		Sulphur dioxide	IS 3543-1996/ DGHS Lab Manual-5:2012	1-5000 mg/kg
		Total ash	IS 3543-1996/ DGHS Lab Manual-5:2012	0.01-20%
	Ash insoluble in dilute-HCL	IS 3543-1996/ DGHS Lab Manual-5:2012	0.01-10%	



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>9 of 144</b>

<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>
		Test for presence of peroxides	IS 4624-1978/ DGHS Lab Manual-5:2012	Qualitative test Negative/ Positive
		pH	IS 2860-1964 RA 2001	1-14
		Test for presence of mineral acid	DGHS Lab Manual-5:2012	Qualitative test Presence/ Absent
		Test for presence of caramel colour	DGHS Lab Manual-5:2012	Qualitative test Presence/ Absent
<b>5.</b>	<b>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	<b>Pesticide Residue</b>		
		Aldrin	DTH/SOP/CHEM/INS/51, Issue No.& Date 01-25.12.2008	10- 1000 µg/kg
		Chlordane (Cis-Chlordane Trans-Chlordane)	GCMS, LCMSMS (AOAC 19 <sup>th</sup> Edition 970.52, TNO method, EPA 3630, QuEChERS Method)	10- 1000 µg/kg
		Chlorothalonil		10- 1000 µg/kg
		DDT (all isomers) o,p-DDT, p,p-DDT, o,p-DDE, p,p-DDE, o,p-DDD, p,p-DDD)		10- 1000 µg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>10 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Dicofol	DTH/SOP/CHEM/INS/51 Issue No.& Date	10- 1000 µg/kg
		Dieldrin	01-25.12.2008 GCMS, LCMSMS	10- 1000 µg/kg
		Endosulphan (all isomers -Alpha-Endosulphan, Beta –Endosulphan, Endosulphan Sulphate)	(AOAC 19 <sup>th</sup> Edition 970.52, TNO method, EPA 3630, QuEChERS Method)	10- 1000 µg/kg
		Endrin		10- 1000 µg/kg
		Alpha HCH		10- 1000 µg/kg
		Beta HCH		10- 1000 µg/kg
		Delta HCH		10- 1000 µg/kg
		Deltamethrin		10- 1000 µg/kg
		Ethofenprox (Etofenprox)		10- 1000 µg/kg
		Fenpropathrin		10- 1000 µg/kg
		Heptachlor		10- 1000 µg/kg
		Heptachlor Epoxide		
		Lindane		10- 1000 µg/kg
		Allethrin		10- 1000 µg/kg
	Bio-Allethrin			
	Bi-Fenethrin		10- 1000 µg/kg	
	Cyfluthrin(Cyfluthrin I, Cyfluthrin II, Cyfluthrin III, Cyfluthrin IV)		10- 1000 µg/kg	

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>11 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Cypermethrin (Cypermethrin I, Cypermethrin II, Cypermethrin III, Cypermethrin IV)	DTH/SOP/CHEM/INS/51 Issue No.& Date 01-25.12.2008 GCMS, LCMSMS (AOAC 19 <sup>th</sup> Edition 970.52, TNO method, EPA 3630, QuEChERS Method)	10- 1000 µg/kg
		Fenvalerate & Esfenvalerate (sum of RR & SS isomers)		10- 1000 µg/kg
		Fenvalerate & Esfenvalerate (sum of RS & SR isomers)		10- 1000 µg/kg
		Lambda-cyhalothrin		10- 1000 µg/kg
		Permethrin (sum of isomers-Cis-Permethrin Trans-Permethrin)		10- 1000 µg/kg
		Tau- Fluvalinate1		10- 1000 µg/kg
		Tau- Fluvalinate2		10- 1000 µg/kg
		Transfluthrin		10- 1000 µg/kg
		4-bromo-2-chlorophenol		10- 1000 µg/kg
		Propiconazole		10- 1000 µg/kg
		Triazophos		10- 1000 µg/kg
		Metalaxyl		10- 1000 µg/kg
		Trifloxystrobin		10- 1000 µg/kg
		Tridimifon		10- 1000 µg/kg
		Simzine		10- 1000 µg/kg
		Quinalphos		10- 1000 µg/kg
	Pendimethalin		10- 1000 µg/kg	
	Phosphamidon		10- 1000 µg/kg	
	Tebuconazole		10- 1000 µg/kg	
	Tridiminol		10- 1000 µg/kg	

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>12 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Metalaxyl	DTH/SOP/CHEM/INS/51	10- 1000 µg/kg
		Penconazole	Issue No.& Date	10- 1000 µg/kg
		Malathion	01-25.12.2008	10- 1000 µg/kg
		Phosalone	GCMS, LCMSMS	10- 1000 µg/kg
		Kresoxim methyl	(AOAC 19 <sup>th</sup> Edition 970.52,	10- 1000 µg/kg
		Profenophos	TNO method, EPA 3630,	10- 1000 µg/kg
		Famoxadone	QuEChERS Method)	10- 1000 µg/kg
		Monocrotophos		10- 1000 µg/kg
		Difenoconazole		10- 1000 µg/kg
		Indoxacarb		10- 1000 µg/kg
		Myclobutanil		10- 1000 µg/kg
		Fenarimol		10- 1000 µg/kg
		Carbosulphan		10- 1000 µg/kg
		Omethoate		10- 1000 µg/kg
		Buprofezin		10- 1000 µg/kg
		Methamidophos		10- 1000 µg/kg
		Azoxystobin		10- 1000 µg/kg
		Atrazine		10- 1000 µg/kg
		Etrimphos		10- 1000 µg/kg
		Hexaconazole		10- 1000 µg/kg
	Bitertinol		10- 1000 µg/kg	
	Flusilzole		10- 1000 µg/kg	
	Carbofuran		10- 1000 µg/kg	
	Diflubenzuron		10- 1000 µg/kg	
	Iprobenphos		10- 1000 µg/kg	
	Acephate		10- 1000 µg/kg	
	Chlorfenvinphos		10- 1000 µg/kg	
	Chlorpyrifos		10- 1000 µg/kg	
	Chlorpyrifos methyl		10- 1000 µg/kg	
	Diazinon		10- 1000 µg/kg	
	Dichlorvos		10- 1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>13 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Dimethoate	DTH/SOP/CHEM/INS/51	10- 1000 µg/kg
		Omethoate	Issue No.& Date	10- 1000 µg/kg
		Dichlofluanid	01-25.12.2008	10- 1000 µg/kg
		Edifenphos	GCMS, LCMSMS	10- 1000 µg/kg
		Ethion	(AOAC 19 <sup>th</sup> Edition 970.52,	10- 1000 µg/kg
		Etrimfos	TNO method, EPA 3630,	10- 1000 µg/kg
		Fenitrothion	QuEChERS Method)	10- 1000 µg/kg
		Fenthion		10- 1000 µg/kg
		Fenthion sulfone		10- 1000 µg/kg
		Fenthion sulfoxide		10- 1000 µg/kg
		Iprobenphos		10- 1000 µg/kg
		Malathion		10- 1000 µg/kg
		Malaoxon		10- 1000 µg/kg
		Methamidophos		10- 1000 µg/kg
		Monocrotophos		10- 1000 µg/kg
		Oxydemeton- methyl		10- 1000 µg/kg
		Parathion ethyl		10- 1000 µg/kg
		Parathion methyl		10- 1000 µg/kg
		Paraoxon methyl		10- 1000 µg/kg
		Phenthoate		10- 1000 µg/kg
	Phorate		10- 1000 µg/kg	
	Phorate sulfone		10- 1000 µg/kg	
	Phorate sulfoxide		10- 1000 µg/kg	
	Phosalone		10- 1000 µg/kg	
	Tetraconazol		10- 1000 µg/kg	
	Phosphamidon		10- 1000 µg/kg	
	Pirimiphos-methyl		10- 1000 µg/kg	
	Profenophos		10- 1000 µg/kg	
	Propetamphos		10- 1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>14 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Quinalphos	DTH/SOP/CHEM/INS/51	10- 1000 µg/kg
		Temephos	Issue No.& Date	10- 1000 µg/kg
		Triazophos	01-25.12.2008	10- 1000 µg/kg
		Atrazine	GCMS, LCMSMS	10- 1000 µg/kg
		Flufenzine	(AOAC 19 <sup>th</sup> Edition 970.52,	10- 1000 µg/kg
		Simazine	TNO method, EPA 3630,	10- 1000 µg/kg
		Benalaxyl	QuEChERS Method)	10- 1000 µg/kg
		(Mix isomers-Benalaxyl-M)		
		Metalaxyl & Metalaxyl- M		10- 1000 µg/kg
		Oxycarboxin		10- 1000 µg/kg
		Propanil		10- 1000 µg/kg
		Bendiocarb		10- 1000 µg/kg
		Benfuracarb		10- 1000 µg/kg
		Carbaryl		10- 1000 µg/kg
		Carbofuran (3-hydroxy-carbofuran)		10- 1000 µg/kg
		Carbosulfan		10- 1000 µg/kg
		Dazomet		10- 1000 µg/kg
		Fenobucarb		10- 1000 µg/kg
		Indoxacarb		10- 1000 µg/kg
		Iprovalicarb		10- 1000 µg/kg
		Methomyl		10- 1000 µg/kg
		Propoxur		10- 1000 µg/kg
		Thiobencarb		10- 1000 µg/kg
	Thiodicarb		10- 1000 µg/kg	
	Fenarimol		10- 1000 µg/kg	
	Bitertanol		10- 1000 µg/kg	
	Difenoconazole		10- 1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>15 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Flusilazole	DTH/SOP/CHEM/INS/51	10- 1000 µg/kg
		Hexaconazole	Issue No.& Date	10- 1000 µg/kg
		Myclobutanil	01-25.12.2008	10- 1000 µg/kg
		Paclobutrazol	GCMS, LCMSMS	10- 1000 µg/kg
		Penconazole	(AOAC 19 <sup>th</sup> Edition 970.52,	10- 1000 µg/kg
		Propiconazole	TNO method, EPA 3630,	10- 1000 µg/kg
		Tebuconazole	QuEChERS Method)	10- 1000 µg/kg
		Triadimefon		10- 1000 µg/kg
		Triadiminol		10- 1000 µg/kg
		Fenamidone		10- 1000 µg/kg
		Iprodione		10- 1000 µg/kg
		Famoxadone		10- 1000 µg/kg
		Captafol		10- 1000 µg/kg
		Captan		10- 1000 µg/kg
		Carbendazim		10- 1000 µg/kg
		Benomyl		10- 1000 µg/kg
		Thiophanate-methyl		10- 1000 µg/kg
		Acetamiprid		10- 1000 µg/kg
		Clothianidin		10- 1000 µg/kg
		Imidacloprid		10- 1000 µg/kg
	Thiacloprid		10- 1000 µg/kg	
	Thiamethoxam		10- 1000 µg/kg	
	Cymoxanil		10- 1000 µg/kg	
	Dimethomorph		10- 1000 µg/kg	
	Tridemorph		10- 1000 µg/kg	
	Diafenthiuron		10- 1000 µg/kg	
	Iodosulfuron-methyl		10- 1000 µg/kg	
	Isoproturon		10- 1000 µg/kg	
	Linuron		10- 1000 µg/kg	
	Pencycuron		10- 1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>16 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Fenpyroximate	DTH/SOP/CHEM/INS/51	10- 1000 µg/kg
		Flufenoxuron	Issue No.& Date	10- 1000 µg/kg
		Azoxystrobin	01-25.12.2008	10- 1000 µg/kg
		Kresoxim methyl	GCMS, LCMSMS	10- 1000 µg/kg
		Pyraclostrobin	(AOAC 19 <sup>th</sup> Edition 970.52,	10- 1000 µg/kg
		Trifloxystrobin	TNO method, EPA 3630,	10- 1000 µg/kg
		Oxyfluorfen	QuEChERS Method)	10- 1000 µg/kg
		Pendimethalin		10- 1000 µg/kg
		Trifluralin		10- 1000 µg/kg
		Alachlor		10- 1000 µg/kg
		Butachlor		10- 1000 µg/kg
		Carboxin		10- 1000 µg/kg
		Metolachlor		10- 1000 µg/kg
		Metolachlor-S		10- 1000 µg/kg
		Novaluron		10- 1000 µg/kg
		Bifenazate		10- 1000 µg/kg
		Buprofezin		10- 1000 µg/kg
		Cartap hydrochloride		10- 1000 µg/kg
		Abamectin		10- 1000 µg/kg
		Diflubenzuron		10- 1000 µg/kg
		Dithianon		10- 1000 µg/kg
		Dodine		10- 1000 µg/kg
	Emamectin Benzoate		10- 1000 µg/kg	
	Propargite		10- 1000 µg/kg	
	Pyriproxyfen		10- 1000 µg/kg	
	Spinosad		10- 1000 µg/kg	
	(sum of Spinosad A, Spinosad D)			
	Spiromesifen		10- 1000 µg/kg	



<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>17 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Trichlorfon	DTH/SOP/CHEM/INS/51	10- 1000 µg/kg
		Tricyclazole	Issue No.& Date	10- 1000 µg/kg
		Imazanil	01-25.12.2008	10- 1000 µg/kg
		Flubendiamide	GCMS, LCMSMS	10- 1000 µg/kg
		Isoprothiolane	(AOAC 19 <sup>th</sup> Edition 970.52,	10- 1000 µg/kg
		Mandipropamid	TNO method, EPA 3630,	10- 1000 µg/kg
		Metribuzin	QuEChERS Method)	10- 1000 µg/kg
		Milbemectin		10- 1000 µg/kg
		Azimphos methyl		10- 1000 µg/kg
		Fipronil		5- 50 µg/kg
		Fipronil sulfone		5- 50 µg/kg
		Dinocap		10- 1000 µg/kg
		Glufosinate-ammonium		50- 500 µg/kg
		Glyphosate		50- 500 µg/kg
		Amino methyl phosphoric acid-AMPA		50- 500 µg/kg
		1-Naphthylacetic acid (alphanaphthyl acetic acid)		20-100 µg/kg
		2,4-D (sum of 2,4-D and its esters expressed as 2,4-D)		10-1000 µg/kg
		6-Benzyl adenine		10-1000 µg/kg
		Azadirachtin		50-1000 µg/kg
		Chlormequat Chloride (CCC)		10-1000 µg/kg
	Homobrassinolide		500-1000 µg/kg	
	Diquat		20-1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>18 of 144</b>

<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>Fruits &amp; Vegetables (Packed, Fresh &amp; Processed)</b>	Ethephon	DTH/SOP/CHEM/INS/51	500-1000 µg/kg
		Gibberellic acid	Issue No.& Date	500-2000 µg/kg
		Fosetyl-Al (sum fosetyl+ phosphorous acid and their salts, expressed as Fosetyl)	01-25.12.2008	500-2000 µg/kg
		Mepiquat Chloride	GCMS, LCMSMS (AOAC 19 <sup>th</sup> Edition 970.52, TNO method, EPA 3630, QuEChERS Method)	
		Sulphur		50-1000 µg/kg
		Heavy Metal		
		Cadmium	DTH-INS-SOP-09	0.1-0.5µg/g
		Copper	Issue No & date 01 & 20.01.2011	0.1-0.5µg/g
		Lead		0.1-0.5µg/g
<b>6.</b>	<b>Milk &amp; Milk Products</b>	Total Milk Solids	IS 1166-1986 RA 2003 amd-3	1 – 99 %
		Fat	IS 11762-2005 RA 2003 / IS : 11721 – 2005	0.1 to 50 %
		Sucrose	IS 4079-1967 RA 2000 amd -1	1 – 90 %
		Titrateable acidity (as lactic acid)	IS 11766-1986 RA 2003/ IS 1165:2002	0.01 – 40 %
		Na & K content	IS 12760 –1989 RA 2005	1 – 1000 mg/kg
		Total Phosphorous Content	IS 1479(P-2) 1961 RA -2003 amd-1	0.1 –20 %
		Moisture	IS 11623-2008/ IS 16072:2012	0.01-40%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>19 of 144</b>

<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>Milk &amp; Milk Products</b>	Total Solids (Milk Solids & added salts)	IS 11623-2008/ IS 16072:2012	1-99.9 %
		Insolubility Index	IS 12759 –1989 RA 2005	0.1-10 ml
		Total Ash	IS : 14433 -2007, RA 2012 & IS 1479 (P-II)-1961 RA 2003	0.01– 10%
		Chloride Content	IS 11763-2005 RA 2005/ IS 1479 (P-II)-1961 RA 2003	0.2 – 5 %
		RM Value	IS 548 (P-1) 1964 RA 2006 amd 5	0.1-50 %
		Casein	IS 1479 (P-II)-1961 RA 2003 amd. 1	1-99%
		Lactose	IS 1479(P-2)-61 RA 2003 amd 1	1.55-99%
		Vitamin-D	<i>AOAC981.17 19<sup>th</sup> edition</i>	2-30 µg/100g
		Flavor & Taste	IS 13334(P-2)/92 RA 2003	NA
		Lactate Content	IS 11202-2005	0.1-5.0 mg/g
		Scorched Particle	IS 13500-1992 RA 2003	0.1-50mg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>20 of 144</b>

<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>Milk &amp; Milk Products</b>	<b>Pesticides residue</b>		
		Aldrin	DTH/SOP/CHEM/INST/11	2-10 µg/kg
		Dieldrin	Issue No.& Date 01-18.12.2008	
		Cis-Chlordane	GCMSMS	1-10 µg/kg
		Trans-Chlordane		
		Alpha Endosulfan	DTH/SOP/CHEM/INST/11	5-50 µg/kg
		Beta Endosulfan	Issue No.& Date 01-18.12.2008	
		Endosulfan sulphate	GCMSMS	
		HCH- <i>gamma</i> (Lindane)		1-10 µg/kg
		Heptachlor		2-10 µg/kg
		Heptachlor epoxide		
		Methoxychlor		5-50 µg/kg
		Diazinon		10-100 µg/kg
		Dichlorvos		10-100 µg/kg
		Ethion		10-100 µg/kg
		Fenthion		10-100 µg/kg
	Fenthion sulphone			
	Fenthion sulphoxide			
	Malathion		10-100 µg/kg	
	Malaoxon			
	Parathion methyl		10-100 µg/kg	
	Paraoxon-methyl			
	Phosalone		10-100 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>21 of 144</b>

<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>Milk &amp; Milk Products</b>	<b>Drug residue</b>		
		Nitrofurans (Metabolites)	DTH/SOP/CHEM/INST/06 Issue No.& Date	
		Furazolidone [AOZ]	01-07.05.2010	0.5-10 µg/kg
		Furatazone[AMOZ]	LCMSMS	0.5-10 µg/kg
		Nitrofurantoin [AHZ]		0.5-10 µg/kg
		Nitrofurazone [ SEM]		0.5-10 µg/kg
		<b>Nitroimidazoles</b>		
		Ronidazole	DTH/SOP/CHEM/INST/07 Issue No.& Date	0.5-10µg/kg
		Metronidazole	01-08.05.2010 LCMSMS	0.5-10µg/kg
		<b>Drug residue</b>		
		Neospyramycin	DTH/SOP/CHEM/INST/05 Issue No.& Date	100-1000µg/ kg
			01-08.05.2013	
		Doxycycline	DTH/SOP/CHEM/INST/03 Issue No.& Date	5 - 50 µg/kg
			01-30.07.2008	
	Diminazene	DTH/SOP/CHEM/INST/10 Issue No.& Date	50-1000µg/kg	
		01-01.12.2012		
	Enrofloxacin	DTH/SOP/CHEM/INST/49 Issue No.& Date	50-1000 µg/kg	
		01-01.06.2010		
	Ciprofloxacin		50-1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>22 of 144</b>

<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>Milk &amp; Milk Products</b>	Total residual antibiotics (as Beta Lactum) Amoxicillin Ampicillin Cefacetrile Cefalexin Cefaliniium Cefaperazon Cefapirin Ceftiofur Cloxacillin Dicloxacillin Nafcillin Oxacillin Pencillin-G	DTH/SOP/CHEM/INST/62 Issue No.& Date 01-25.12.2008 (Delvo Kit)	Present/Absent
		Aflatoxin M1	DTH/SOP/CHEM/INST/12 Issue No.& Date 01-18.11.2010	0.01 - 1 µg/kg
		Chloramphenicol	DTH/SOP/CHEM/INST/01 Issue No.& Date 01-08.05.2009 LCMSMS	0.1-10 µg/kg
		Thiamphenicol	DTH/SOP/CHEM/INST/50 Issue No.& Date 01-16.11.2010 LCMSMS	25-1000µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>23 of 144</b>

<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>Milk &amp; Milk Products</b>	Sulfonamides	DTH/SOP/CHEM/INST/02	
		Sulfadimidine	Issue No.& Date	10-1000 µg/kg
		Sulfadiazine	01-08.05.2013	10-1000 µg/kg
		Sulfadimethoxine	LCMS MS	10-1000 µg/kg
		Sulfadoxine	[Journal Of Chromatography A,1205 (2008)10-S16]	10-1000 µg/kg
		Sulfanilamide		10-1000 µg/kg
		Sulfamirazine		10-1000 µg/kg
		Sulfamethoxypyridazine		10-1000 µg/kg
		Sulfametoxazole		10-1000 µg/kg
		Sulfathiazole		10-1000 µg/kg
	Sulfamethiazole		2.5 µg/kg	
	Pharmaceutically active substance	Trimethoprim	DTH/SOP/CHEM/INST/02 Issue No.& Date 01-08.05.2013 LCMSMS	25-1000µg/kg
	Macrolides	Erythromycin A	DTH/SOP/CHEM/INST/08 Issue No.& Date 01-08.04.2012 LCMSMS	20-1000µg/kg 100-1000µg/kg 25-1000µg/kg
		Spiramycin		25-1000µg/kg
		Tilmicosin		25-1000µg/kg
		Tylosin A		25-1000µg/kg
	Amino glycosides	Dihydrostreptomycin including streptomycin	DTH/SOP/CHEM/INST/05 Issue No.& Date 01-08.05.2013 LCMSMS	50-1000µg/kg
		Gentamycin		50-1000µg/kg
		Kanamycin A		50-1000µg/kg
		Neomycin B		50-1000 µg/kg
		Spectinomycin		50-1000µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>24 of 144</b>

<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>Milk &amp; Milk Products</b>	Tetracyclines Chlortetracycline	DTH/SOP/CHEM/INST/03		
		Oxytetracycline	Issue No.& Date	25-1000µg/kg	
		Tetracycline	01-30.07.2008	25-1000µg/kg	
			LCMSMS	25-1000µg/kg	
			(AOAC-995.09/1999)		
		<b>Anthelmintics</b>			
		Albendazole	DTH/SOP/CHEM/INST/04	50 – 1000 µg/kg	
		Albendazole sulphoxide	Issue No.& Date		
		Albendazole sulphone	01-08.05.2013		
		Albendazole 2-aminosulphone,	LCMS MS		
	Fenbendazole		5 – 100 µg/kg		
	oxfenbendazole sulphone				
	Ivermectin (22,23-Dyhydro- avermectinB1a)		5 - 50µg/kg		
	Morantel	DTH/SOP/CHEM/INST/49	25 - 1000µg/kg		
	N-methyl-1,3-propanediamine	Issue No.& Date			
	Trimethoprim	01-01.06.2010	25 – 1000 µg/kg		
		LCMSMS			
	Non-Steroidal anti-inflammatory drugs	DTH/SOP/CHEM/INST/09	5-100 µg/kg		
	Phenyl Butazone	Issue No.& Date			
		01-01.12.2008			
		(Journal Of Chromatography 267)			
	(Heavy Metals)				
	Lead	MILK/ SOP /Metals/08	10-100 µg/kg		
		DTH-INS-SOP-02			



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>25 of 144</b>

<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>
7.	<b>Milk &amp; Milk Products, Ghee/Butter</b>	Butyro-refractrometer reading at 40°C	IS 3507-1966 IS 3508-1966/DGHS Lab Manual-1:2012	0.1-100
		Moisture and volatile matter	IS 3507-1966 IS 3508-1966/DGHS Lab Manual-1:2012	0.01 - 10%
		Free fatty Acid (as oleic acid)	IS 3508-1966/DGHS Lab Manual-1:2012	0.01 - 20%
		Reichert meissl value	IS 3508-1966/DGHS Lab Manual-1:2012	1 - 40
		Polenske value	IS 3508-1966/DGHS Lab Manual-1:2005	1 - 20
		Baudouins test	IS 3508-1966/DGHS Lab Manual-1:2012	Presence/Absent
		Presence of animal body fat in milk fat	DGHS Lab Manual-2:2012	Presence/Absent
		Curd	IS 3507-1966/ DGHS Lab Manual-1:2012	0.1 - 20%
		Arsenic	DTH-INS-SOP-12 Issue No & date 01& 05.04.2011	0.05-2.5mg/kg

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>26 of 144</b>

<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>Milk &amp; Milk Products, Ghee/Butter</b>	Salt as( Nacl)	IS 3507-1966/ DGHS Lab Manual-1:2012	0.1-5%
		Titration Acidity as lactic Acid	IS 3507-1966/ DGHS Lab Manual-1:2012	0.1-5%
<b>8.</b>	<b>Milk &amp; Milk Products, Curd Lassi, Ice cream, Cream, Cheese, chana, paneer, malai, Condense milk, skimmed milk powder</b>	Total Solids/solid non fat (SNF)	IS 2802-1964, RA 2000/ DGHS Lab Manual-1:2012/ IS 1 479(P-2):1961, RA 2003	0.5 to 99%
		Total Fat/Fat/Milk Fat	IS 2802-1964, RA 2000/ DGHS Lab Manual-1:2012/ IS 1 479(P-2):1961, RA 2003	0.01 to 99.9%
		Acidity (as lactic acid) /Titration acidity	IS 2802-1964, RA 2000/ DGHS Lab Manual-1:2012/ IS 1 479(P-1):1960, RA 2003	0.1 to 20%
		Sucrose	IS 2802-1964, RA 2000, DGHS Lab Manual-1:2012/ IS 1 479(P-2):1961, RA 2003, IS 4079:1960	0.5 to 90%
		Protein	IS 7219-1993 IS 1479(P-1)-1960, DGHS Lab Manual-1:2012	0.5 to 75%
		Phosphate test	IS 2802-1964, RA 2000 IS 1479-(P-11)-1961	Present/Absent

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>27 of 144</b>

<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>Milk &amp; Milk Products, Curd Lassi, Ice cream, Cream, Cheese, chana, paneer, malai, Condence milk, skimmed milk powder</b>	Cane Sugar	IS 1479(P-1)-1960/ DGHS Lab Manual-1:2012	Present/Absent
		Starch	IS 1479(P-1)-1960/ DGHS Lab Manual-1:2012	Present/Absent
		Urea	IS 1479(P-1)-1960/ DGHS Lab Manual-1:2012	Present/Absent
		Preservatives/ neutralizers	IS 1479(P-1)-1960 IS 1479(P-11)-1961/ DGHS Lab Manual-1:2012	Present/Absent
		Detection of cellulose	DGHS lab maual-1:2012	Presence/Absent
		Detection of Aluminium Sulphate	DGHS lab maual-1:2012	Presence/Absent
		Detection of sodium chloride	DGHS lab maual-1:2012	Presence/Absent
		Detection of saccharin	DGHS lab maual-1:2012	Presence/Absent
		Detection of Skimmed Milk Powder	DGHS lab maual-1:2012	Presence/Absent
<b>9.</b>	<b>Edible starch &amp; starch products</b>	Moisture	IS 4706 (P-II)-1978, RA 2005	0.01-15%
		Total Ash	IS 4706 (P-II)-1978, RA 2005	0.01-20%
		Acid Insoluble Ash	IS 4706 (P-II)-1978, RA 2005	0.05-20%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>28 of 144</b>

<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>Edible starch &amp; starch products</b>	Total Ash Excluding Nacl	IS 4706 (P-II)-1978, RA 2005	0.05-10%
		Sulphated Ash	IS 4706 (P-II)-1978, RA 2005	0.01-20%
		Starch	IS 4706 (P-II)-1978, RA 2005	1-90%
		Protein	IS 4706 (P-II)-1978, RA 2005	0.1-30%
		pH of aqueous extract	IS 4706 (P-II)-1978, RA 2005	1-14
		Free Acidity	IS 4706 (P-II)-1978, RA 2005	0.1-5%
		Sulphur Dioxide	IS 4706 (P-II)-1978, RA 2005	(1-1000mg /kg)
		Alcoholic Acidity	IS 4706 (P-II)-1978, RA 2005	0.01-5.0%
		Crude fibre	IS 4706 (P-II)-1978, RA 2005	0.0-50%
		Lead	DTH-INS-SOP-15 Issue No. & date 01 & 05.05.2011	0.05-2.5µg/g
		Copper		0.05-2.5µg/g
		Arsenic		0.05-2.5µg/g
		Zinc		0.05-2.5µg/g

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>29 of 144</b>

<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>10.</b>	<b>Spices and Condiment</b>	Moisture	IS 1797-1985/ DGHS Lab manual-10:2012	0.2-40%
		Total Ash	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-20%
		Acid insoluble ash	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-20%
		Water insoluble ash	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-20%
		Alcoholic soluble extract	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-20%
		Cold water soluble extract	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-20%
		Volatile oil	IS 1797-1985/ DGHS Lab manual-10:2012	0.2-50%
		Non volatile ether extract	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-75%
		Crude fibre	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-50%
		Salt (as Nacl)	IS 1797-1985/ DGHS Lab manual-10:2012	0.1-10%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>30 of 144</b>

<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>Spices and Condiment</b>	Synthetic colour/ Added colour	DGHS Lab Manual-10:2012	Present/ Absent
		Curcumin content	IS 10925-1984/ DGHS Lab Manual-10:2012	1-15%
		Extraneous matter, dirt, insect infestation, and physical, light berry, Stones, grit, damaged, insect damaged floral waste, insect damaged floral waste, discolour, stalks, twigs, empty and malformed capsuls, Headless/ immature shrivelled capsules, broken pinheads, unripe units, admixture, insects fragment, insect rodent hair and excreta, mother cloves, khoker cloves, headless cloves	IS 1797-1985 IS 1798-1982 DGHS Lab Manual-10:2012 FSSAI Regulation:2011, Visual examination	Physical Examination
		Starch	DGHS Lab manual-10:2012 IS 4706 (Pt-II)-1978	1.0-90%
		Peprine content	ISO:11027-1993 DGHS Lab Manual-10:2012	0.1-10%
		Proportion of edible seeds other than cumin seeds	IS 4333:(P-1):1996	Present/ Absent
		Calcium as Calcium Oxides	IS 1797-1985 DGHS Lab Manual-10:2012	0.01-5%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>31 of 144</b>

<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>Spices and Condiment</b>	Total Nitrogen	IS 5494-1969 DGHS Lab manual-10:2012	0.01-10%
		Crude fibre	IS 1797-1985 DGHS Lab manual-10	0.01-50%
		Defective Rhizomes	IS 3576-1994	0.1-10%
		Test for lead chromate	IS 3576-1994 DGHS Lab manual-10:2012	Qualitative test Positive/Negative
		Peroxidase test	IS 4624-1978 DGHS Lab manual-5:2012	Qualitative Positive/Negative
		Lead	DTH-INS-SOP-20 Issue No. & date 01 & 05.05.2011	0.05-2.5µg/g
		Copper		0.05-2.5µg/g
		Arsenic		0.05-2.5µg/g
		Zinc		0.05-2.5µg/g
		Cadmium		0.05-2.5µg/g
		Tin		0.05-2.5µg/g

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>32 of 144</b>

<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>11.</b>	<b>Nuts, Raisins and Dry fruits</b>	Extraneous/Foreign matter, stones, dirt, clay, mould effect Insects, mould/mouldy shall discoloured dead insects, insect fragments, insect infestation, rodent contamination, rodent hair & excreta	FSSAI Regulation: 7 <sup>th</sup> Edition :2011/ DGHS Lab Manual-3:2012	Physical Examination
	Moisture		IS 4684-1975 RA 2005/ DGHS Lab manual -5:2012	0.01-50%
	Damaged kernel		DGHS Lab manual-3:2012	0-50%
	Unopened shells		DGHS Lab manual-3:2012	0-40%
	Empty shell		DGHS Lab manual-3:2012	0-50%
	Blemished/ damage unit		DGHS Lab manual-3:2012	0-50%
	Acidity of extracted fat		IS 1011-2002/ DGHS Lab Manual -3:2012	0.01-50%
	Aflatoxin B <sub>1</sub>		DTH/SOP/CHEM/INST/47, Issue No. & Date 01-02.06.2012	0.5 – 100 µg/kg
	Aflatoxin B <sub>2</sub>		LCMSMS, AOAC 2005.08	0.5 – 100 µg/kg
	Aflatoxin G <sub>1</sub>		(Chapter 49.2.18A) 19 <sup>th</sup> Edition. AOAC 968.22 19 <sup>th</sup> Edition	0.5 – 100 µg/kg
	Aflatoxin G <sub>2</sub>		AOAC 970.45 19 <sup>th</sup> Edition, LCMSMS	0.5 – 100 µg/kg



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>33 of 144</b>

<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>Nuts, Raisins and Dry fruits</b>	Sugared raisins	FSSAI Regulation: 7 <sup>th</sup> Edition :2011	0-50%
		Ash insoluble in dilute HCL	DGHS lab manual-3:2012	0.01-5%
<b>12.</b>	<b>Weaning food, dried Milk &amp; Food supplement</b>	Protein	IS 7219-1993, RA 2005	0.5-50%
		Fat	IS 1656 -2007– Anne-B DGHS Lab manual -3:2012	0.01-90%
		Sodium	IS :12760-1989 RA 2010	1-10000mg/kg
		Potassium	IS 12760-1989 RA 2010	1-10000 mg/kg
		Calcium	IS 4285-1967, RA 2010	1-1000 mg/kg
		Dietary fibre	IS 11062-1984	0.1-50%
		Carbohydrate	IS 1656-2007 – Ann-C	1-90%
		Energy	IS 14433:2007, RA 2012	20-900 kcals /100g
		Saturated fat	AOAC 996.06 19 <sup>th</sup> Ed.	0.02-80%
		Mono unsaturated fat	AOAC 996.06 19 <sup>th</sup> Ed.	0.02-80%
		Poly unsaturated fat	AOAC 996.06 19 <sup>th</sup> Ed.	0.02-80%
		Transfat	AOAC 996.06 19 <sup>th</sup> Ed.	0.02-30.0%
		Cholestrol	AOAC 994.10 19 <sup>th</sup> Ed.	0.5-.500 mg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>34 of 144</b>

<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>13.</b>	<b>Coffee, Tea, Cocoa, Catechine and related products</b>	Total Ash	IS 3077-1992 IS 13854-1994 DGHS Lab Manual-4:2012	0.01%-50%
		Acid insoluble ash	IS 13857-1993/ DGHS Lab manual-4:2012	0.01-20%
		Water soluble ash	IS 13855-1993/ DGHS Lab manual-4:2012	0.01-20%
		Alkalinity of ash	IS 13856-1993/ DGHS Lab manual-4:2012	0.1-10%
		Moisture	IS 13853-1994/ DGHS Lab manual-4:2012	0.01-15%
		Crude fibre	IS 1164-2001/ IS 10226 (Pt-1)-1982	0.01-50%
		Caffeine	IS 2791-1992 DGHS Lab manual-4:2012	0.5-10 %
		Aqueous extract	IS 13862-1992	0.1% – 90%
		Total catechine	IS 2962-1964	0.1-80%
		Lead	DTH-INS-SOP-21	0.05-2.5µg/g
Copper	Issue No. & date 01 & 05.05.2011	0.05-2.5µg/g		
Arsenic		0.05-2.5µg/g		
Zinc		0.05-2.5µg/g		
Tin		0.05-2.5µg/g		
Cadmium		0.05-2.5µg/g		

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>35 of 144</b>

<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. Additives in Food Products</b>	Benzoic Acid		DGHS Lab Manual-8:2012	10-1000 mg/kg
	Sorbic Acid		DGHS Lab Manual-8:2012	1-1000mg/kg
	P-Hydroxy benzoic acid		DGHS Lab Manual-8:2012	Presence/Absent
	Propionic acid & Acetic acid		DGHS Lab Manual-8:2012	Present/ Absent
	Diethyl Carbonate		DGHS Lab Manual-8:2012	Present/ Absent
	Salicylic acid		DGHS Lab Manual-8:2012	Present/ Absent
	Borates		DGHS Lab Manual-8:2012	Present/ Absent
	Saccharin		DGHS Lab Manual-8:2012	Present/ Absent
	Duclin		DGHS Lab Manual-8:2012	Present/ Absent
	Cyclamate		DGHS Lab Manual-8:2012	Present/ Absent
	Aspartame		DGHS Lab Manual-8:2012	Present/ Absent
	Acesulfamek		DGHS Lab Manual-8:2012	Present/ Absent
	Colour synthetic		DGHS Lab Manual-8:2012	Present/ Absent
	Mono sodium glutamate		DGHS Lab Manual-8:2012	0.1-10%

**Laboratory** Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Chemical Testing **Issue Date** 03.03.2014

**Certificate Number** T-0173 **Valid Until** 02.03.2016

**Last Amended on** - **Page** 36 of 144

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
15.	Meat and Meat Products	Total Fat	IS 5960 (P-3)-1970 RA 1999/ DGHS Lab Manual -6:2012	0.1-60%
		Total volatile base nitrogen	DGHS Lab Manual-6:2012	1-100 mg/100g
		Histamine	DGHS Lab Manual-6:2012/ By TLC method	5-50mg/100g
		Moisture	IS 5960(P-5)-2001/ DGHS Lab Manual-6:2012	0.1-50%
		Ash Insoluble in HCl	IS 5960(P-2) -2008/ DGHS Lab Manual-6:2012	0.1-10%
		Sodium Chloride	IS 5960(P-6) -1997/ DGHS Lab Manual-6:2012	0.1-30%
		Lead	DTH-INS-SOP-19 Issue No. & date 01 & 05.05.2011	0.05-2.5µg/g
		Tin		0.05-2.5µg/g
		Mercury		0.05-2.5µg/g
	Protein (N×6.25)	IS 5960(P-1)1976 RA 2001/ DGHS Lab Manual- 6:2012	0.1-30%	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>37 of 144</b>

<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>16.</b>	<b>Sweet, Sugar &amp; Confectionery Products Sugar, Sugar boiled confectionery, Milk toffee, Butter toffee, Lozenges, Chewing gum, Bubble gum, Ice candy</b>	Moisture	IS 6287-1985 RA 2005/ DGHS Lab Manual-4:2012	0.01-30%
		Sulphated Ash	IS 6287-1985 RA 2005/ DGHS Lab Manual-4:2012	0.01-20%
		Acid insoluble Ash	IS 6287-1985 RA 2005/ DGHS Lab Manual-4:2012	0.01-10%
		Total Proteins (N×6.25)	IS 7219-1973/ DGHS Lab Manual-4:2012	0.1-40%
		Fat	DGHS Lab Manual-4:2012	0.1-30%
		Reducing Sugar	IS 6287-1985 RA 2005/ DGHS Lab Manual-4:2012	0.1-60%
		Sucrose	IS 6287-1985 RA 2005/ DGHS Lab Manual-4:2012	0.1-95%
		Sulphur dioxide	IS 4706(P-II)-1978/ DGHS Lab Manual-4:2012	10-5000 mg/ kg
		Lead	DTH-INS-SOP-17 Issue No. & date 01 & 01.04.2011	0.05-2.5 µg/g
Copper		0.05-2.5 µg/g		
Arsenic		0.05-2.5 µg/g		
Zinc		0.05-2.5 µg/g		

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>38 of 144</b>

<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>
		Benzoic Acid	DGHS Lab Manual-8:2012	5-5000 mg/kg
		Sorbic Acid	DGHS Lab Manual-8:2012	5-5000 mg/kg
		Synthetic colour	DGHS Lab Manual-8:2012	Qualitative test Present/Absent
<b>17.</b>	<b>Foods and Agriculture Products (Grains &amp; Pulses)</b>	Uric Acid	IS 4333(P-5)-1970 RA 2005	5mg/kg-200mg/kg
<b>18.</b>	<b>Cereals and cereal products (Atta, maida, semoleina (Suji or Rawa), Besan, Barley powder)</b>	Extraneous matter, Musty smell off – odour, colour, Insect, insect infestation, insect fragments, Rancid taste	Visual / IS 1155:1968	Physical examination
		Moisture	IS 1155:1968/IS 1009:1979, IS 1156-1957/IS 1010:1968 IS 1157-1957/DGHS Lab Manual-3:2012	0.01-30%
		Total Ash	IS 1155:1968/IS 1009:1979, IS 1156-1957 /IS 1010:1968 IS 1157-1957/DGHS Lab Manual-3:2012	0.01-20%
		Ash Insoluble in Dilute HCl	IS 1155:1968/IS 1009:1979 IS 1156-1957/IS 1010:1968 IS 1157-1957/DGHS Lab Manual-3:2012	0.01-20%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>39 of 144</b>

<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>Cereals and cereal products (Atta, maida, semoleina (Suji or Rawa), Besan, Barley powder)</b>	Gluten	IS 1155:1968 DGHS Lab manual-3:2012	0.5-20%
		Alcoholic Acidity	IS 1155:1968 DGHS Lab manual-3:2012	0.02-12.0
		Total Protein (N×6.25)	IS 7219-1973 DGHS Lab manual-3:2012	0.1-50%
		Crude Fibre	IS 1155-1968 DGHS Lab manual-3:2012	0.01-30%
		Calcium Carbonate	DGHS Lab manual-3:2012 IS 4285-1967	0.1-10%
		Iron	AOAC 985.35 19 <sup>th</sup> Ed.	0.5-3 mg/kg
		Thiamine	SOP/FOOD/Vitamin/03 Issue No. & Date 01-18.01.2010	1-100 mg/kg
		Riboflavin Niacin		1-100 mg/kg 1-100 mg/kg
		Granularity	IS 1155:1968	Qualitative test
		Rodent hair & Excreta	DGHS Lab manual-3:2012	Qualitative test Present /Absent

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>40 of 144</b>

<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>19. Pan Masala etc.</b>		Total Ash	IS 5643-1999	0.01-20%
		Ash insoluble in dil. HCl	IS 5643-1999	0.01-10%
		Coaltar colouring matter	DGHS Lab manual-8:2012	Qualitative test Present/Absent
<b>20. Infant Foods</b>		Moisture	IS 14433 -2007 RA 2005	0.1 – 40 %
		Milk Protein	IS 7219-1973 RA 2005	0.1 – 40 %
		Milk Fat	IS 14433 -2007 RA 2012	0.01- 40 %
		Total Ash	IS 14433 -2007 RA 2012	0.01- 10 %
		Acid Insoluble Ash	IS 14433 -2007 RA 2012	0.01- 10 %
		Iron	IS 14433 -2007 annexure-D, RA 2012 AOAC 985.35 19 <sup>th</sup> Edition	1-100 mg/kg
			DTH-INS-SOP-14 Issue No & date 01 & 05.05.2011	0.05-2.5mg/kg
		Manganese	AOAC 985.35 19 <sup>th</sup> Edition	1-100 mg/kg
		DTH-INS-SOP-14 Issue No & date 01 & 05.05.2011	0.05-2.5mg/kg	



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>41 of 144</b>

<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>Infant Foods</b>	Zinc	AOAC 985.35 19 <sup>th</sup> Edition  DTH-INS-SOP-14 Issue No & date 01 & 05.05.2011	1-100 mg/kg  0.05-2.5mg/kg
		Total Carbohydrate	IS 1656-2007 amd-1	1-70 %
		Dietary Fibre	IS 11062-1984 RA 2005	0.1 – 50 %
		<b>Heavy Metals</b>		
		a) Lead	IS 12074-1987 RA 2010 DTH-INS-SOP-14 Issue No & date 01 & 05.05.2011	1-100mg/kg 0.05-2.5 mg/kg
		b) Arsenic	IS 11124-1984 RA 2010 DTH-INS-SOP-14 Issue No & date 01 & 05.05.2011	1-100mg/kg 0.05-2.5 mg/kg
<b>21.</b>	<b>Fruit Juice</b>	Benzoic acid	IS 1214(P-1)-1986 RA 2002 IS 3500-1966 RA 2001/ DGHS Lab manual-8:2012	10-5000 mg/kg
		Sulphur dioxide	IS 3543-1966/ DGHS Lab manual-5:2012	1-500mg/kg
<b>22.</b>	<b>Honey</b>	Specific gravity	IS 4941-1984 RA 2002	1.21-1.50
		Moisture(%by mass)	IS 4941-1984 RA 2002	10-40%
		Total reducing sugar	IS 4941-1984 RA 2002	1-90%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>42 of 144</b>

<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>Honey</b>	HMF content	IS 4941-1984 RA 2002	0.2-150 mg/kg
		Sucrose	IS 4941-1984 RA 2002	0.1-90%
		Fructose-Glucose ratio	IS 4941-1984 RA 2002	0.8-1.3
		Ash content	IS 4941-1984 RA 2002	0.01-5%
		Acidity	IS 4941-1984 RA 2002	0.023-5%
		Fiehe's tests	IS 4941-1984 RA 2002	Identification test
		Total count of pollens & plant elements	IS 4941-1984 RA 2002	$2.5 \times 10^4 - 1 \times 10^5$
		Optical density	IS 4941-1984 RA 2002	0.02-1.5
		Lead	Honey / SOP /Metal/04 DTH-INS-SOP-01 Issue No. & date 01 & 02.05.2010	1-100mg/kg 0.05-2.5mg/kg
		Copper	Honey / SOP /Metal/04 DTH-INS-SOP-01 Issue No. & date 01 & 02.05.2010	1-100mg/kg 0.05-2.5mg/kg
		Mercury	Honey / SOP /Metal/04 DTH-INS-SOP-01 Issue No. & date 01 & 02.05.2010	1-100mg/kg 0.05-2.5mg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>43 of 144</b>

<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>Honey</b>	Cadmium	Honey / SOP /Metal/04 DTH-INS-SOP-01 Issue No. & date 01 & 02.05.2010	1-100mg/kg 0.05-2.5mg/kg
		Tin	Honey / SOP /Metal/04 DTH-INS-SOP-01 Issue No. & date 01 & 02.05.2010	1-100mg/kg 0.05-2.5mg/kg
		Arsenic	Honey / SOP /Metal/04 DTH-INS-SOP-01 Issue No. & date 01 & 02.05.2010	1-100mg/kg 0.05-2.5mg/kg
		<b>Drug residue</b>		
		Sulphonamides Sulfadimidine	DTH/SOP/CHEM/INST/15 Issue No.& Date 01-14.01.2010	5 – 50 µg/kg
		Sulfadiazine	LCMS MS	5 – 50 µg/kg
		Sulfadimethoxine		5 – 50 µg/kg
		Sulfadoxine		5 – 50 µg/kg
		Sulfamethazine		5 – 50 µg/kg
		Sulfamerazine		5 – 50 µg/kg
		Sulfanilamide		5 – 50 µg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>44 of 144</b>

<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>Honey</b>	Sulfamethoxyypyridazine	DTH/SOP/CHEM/INST/15 Issue No.& Date	5 – 50 µg/kg
		Sulfamethoxazol	01-14.01.2010 LCMS MS	5 – 50 µg/kg
		Trimethoprim		5 – 50 µg/kg
		Sulfathiazole		5 – 50 µg/kg
		Chloramphenicol	DTH/SOP/CHEM/INST/13, Issue No.& Date 01-14.01.2010 LCMSMS [Journal Of Chromatography 807 Page (343-356)]	0.1 - 10 µg/kg
		Dihydrostreptomycin Streptomycin	DTH/SOP/CHEM/INST/16, Issue No.& Date 01-14.01.2010, LCMS MS	5 – 100 µg/kg
		<b>Tetracycline</b> Chlortetracycline , 4-Epichlortetracycline	DTH/SOP/CHEM/INST/14, Issue No.& Date 01-20.01.2010 LCMS MS, (AOAC 995.09/1999)	5 - 50µg/kg
		Oxytetracycline , 4-Epioxytetracycline		5 - 50µg/kg
		Tetracycline, 4-Epitetracycline		5 - 50µg/kg
		Doxycycline		5 -100 µg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>45 of 144</b>

<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>Honey</b>	<b>Nitrofurans</b>		
		Furazolidone [AOZ]	DTH/SOP/CHEM/INST/17 Issue No.& Date 01-14.01.2010	0.5 - 10µg/kg
		Furaltadone [AMOZ]	LCMSMS	0.5 - 10µg/kg
		Nitrofurantoin [AHD]		0.5 - 10µg/kg
		Nitrofurazone [ SEM]		0.5 - 10µg/kg
		<b>Nitromidazoles</b>		
		Metronidazole	DTH/SOP/CHEM/INST/19 Issue No.& Date 01-14.01.2010 LCMS MS	0.5-100µg/kg
		Other Pharmacologically active subs	PAM FDA 2905 a (6/92) GCMS MS	10-100µg/kg
		Amitraz	DTH/SOP/CHEM/INST/21 Issue No.& Date 01-18.12.2008	
		<b>Pesticide Residue</b>		
		Carbamates	DTH/SOP/CHEM/INST/18, Issue No.& Date 01-16.01.2010	10-200 µg/kg
		Carbaryl	LCMS MS	10-200 µg/kg
		Carbofuran		10-200 µg/kg
		Propexeur		10-200 µg/kg
		Tylosin A	DTH/SOP/CHEM/INST/20, Issue No.& Date 01-14.01.2010 LCMS MS	5 - 50 µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>46 of 144</b>

<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>Honey</b>	<b>Pyrethroids</b>		
		Cyfluthrin (sum of isomers)	DTH/SOP/CHEM/INST/21,	5 -50 µg/kg
		Cyhalothrin (sum of isomers)	Issue No.& Date	5 -50 µg/kg
		Cypermethrin (sum of isomers- alphacypermethrin)	01-18.12.2008 GCMSMS	5 -50 µg/kg
		Deltamethrin		5 -50 µg/kg
		Fenvalerate (sum of RR , SS,RS,SR isomers)		5 -50 µg/kg
		Permethrin (sum of isomers)		5 -50 µg/kg
		Fluvalinate		5 -50 µg/kg
		Chinomethionat		5 -50 µg/kg
		Bromopropylate		5 -50 µg/kg
		Cymiazole		5 -50 µg/kg
		<b>Organochlorine compounds</b>		
		Aldrin	DTH/SOP/CHEM/INST/21,	5 -100 µg/kg
		Dieldrin	Issue No.& Date 01-18.12.2008	5 -100 µg/kg
		Chlorbenzilate	GCMSMS	5 -100 µg/kg
		p,p-DDT		5 -100 µg/kg
		o,p- DDT		
		p,p -DDE		
		o,p-DDE		
		p,p TDE (DDD)		
		o,p-DDD		
		Alpha Endosulfan		5 -100 µg/kg
		Beta Endosulfan		
		Endosulfan sulphate		

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>47 of 144</b>

<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>Honey</b>	Alpha HCH Beta HCH Delta HCH Lindane ( <i>gamma</i> -HCH) Heptachlor Heptachlor epoxide Hexachlorobenzene (HCB) Vinclozolin sun of vinclozolin and all metabolites containing	DTH/SOP/CHEM/INST/21, Issue No.& Date 01-18.12.2008 GCMSMS	5 -100 µg/kg  5 -100 µg/kg 5 -100 µg/kg 5 -100 µg/kg
		3,5-dichloroaniline moiety expressed as vinclozolin Chlorothalonil	DTH/SOP/CHEM/INST/21, Issue No.& Date 01-18.12.2008 GCMSMS	5 -100 µg/kg 5 -100 µg/kg
		<b>Organophosphorus compounds</b> Coumaphos Malathion Malaoxon Phosalone	DTH/SOP/CHEM/INST/21, Issue No.& Date 01-18.12.2008 GCMSMS	5 -100 µg/kg 5 -100 µg/kg 5 -100 µg/kg
<b>23.</b>	<b>Cereal products</b>	Sugar(reducing) Protein Water soluble protein Fatty acids composition(saturated, unsaturated, poly unsaturated fat) Starch	IS 4079-1967 RA 2000 amd-1 IS 7219-1973 RA 2005 AOAC 923.04 19 <sup>th</sup> Edition AOAC 996.06 19 <sup>th</sup> edition IS 4706 (P-2)-1978	0.1 – 99 % 0.1-50% 0.010-30% 0.05-90% 10-95%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>48 of 144</b>

<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>24.</b>	<b>Processed Cereal Based complementary food IS 11536-2007</b>	Protein	IS 7219-1973 RA 2005	0.1-50%
		Moisture	IS 11623 – 2008 IS 16072:2012	0.01-20%
		Total Carbohydrates, % by mass	IS 1656 – 2007 amd-1	20-80%
		Total Ash	IS 14433-2007 amd.2	0.01-20%
		Acid Insoluble Ash	Ann-C of IS 14433 -2007 amd. 2	0.01-10%
		Crude Fibre (On dry basis)	IS 10226 -1982 RA 2005	0.01-20%
		Heavy Metals Lead	AOAC 999.1(19 <sup>th</sup> Edn.) IS 12074:1987, RA 2010 DTH-INS-SOP-15 Issue No. & date 01&05.05.2011	1-100mg/kg 0.05-2.5 mg/kg
		Arsenic	AOAC 963.21(19 <sup>th</sup> Edn.) IS 11124:1984, RA 2010 DTH-INS-SOP-15 Issue No. & date 01&05.05.2011	1-100mg/kg 0.05-2.5 mg/kg
		Tin	AOAC 985.10(19 <sup>th</sup> Edn.) IS 2860:1964, RA 2010 DTH-INS-SOP-15 Issue No. & date 01&05.05.2011	1-100mg/kg 0.05-2.5 µg/g



<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>49 of 144</b>

<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>Processed Cereal Based complementary food IS 11536-2007</b>	Cadmium	AOAC 999.1(19 <sup>th</sup> Edn.) IS 1699:1995, RA 2009 DTH-INS-SOP-15 Issue No. & date 01&05.05.2011	1-100mg/kg 0.05-2.5 mg/kg
		Vitamin A	IS 5886-1970 RA 2005	10-500µg/100 gm 10µg/100gm
		Added Vitamin D expressed as Cholacliferol	AOAC 981.17 (19 <sup>th</sup> Edn.)	2.-30 µg/100 gm
		Iron	Ann-D of IS 14433 -2007 amd-2/ AOAC 985.35 19 <sup>th</sup> Edition	3-100mg/100gm
		Vitamin C	IS 5838-1970 RA 2005	2-900 mg/100 gm
<b>25.</b>	<b>Milk Cereal Based complementary food IS 1656-2007</b>	Protein	IS 7219-1973 RA 2005	0.1-50%
		Moisture	IS 11623-2008	0.01-30%
		Fat	Ann-B of IS 1656-2007 amd-1	0.01-15%
		Total Ash	Ann-B of IS 14433-2007 amd-2	0.01-20%
		Acid Insoluble Ash	Ann-C of IS 14433 -2007 amd-2	0.01-10%
		Crude Fiber (On dry basis)	IS 10226 (P-1)-1982 RA 2005	0.01-20%
	Dietary fibre	IS 11062-1984 RA 2005	0.01-60%	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>50 of 144</b>

<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>Milk Cereal Based complementary food IS 1656-2007</b>	Heavy Metals	AOAC 999.11(19 <sup>th</sup> Edn.)	1-100mg/kg
		Lead	IS 12074:1987, RA 2010 DTH-INS-SOP-16 Issue No. & date 01 & 01.04.2011	0.05-2.5 mg/kg
		Arsenic	AOAC 963.21(19 <sup>th</sup> Edn.) IS 11124:1984, RA 2010 DTH-INS-SOP-16 Issue No. & date 01 & 01.04.2011	1-100mg/kg 0.05-2.5 mg/kg
		Tin	AOAC 985.10(19 <sup>th</sup> Edn.) IS 2860:1964, RA 2010 DTH-INS-SOP-16 Issue No. & date 01 & 01.04.2011	1-100mg/kg 0.05-2.5 mg/kg
		Cadmium	AOAC 999.1(19 <sup>th</sup> Edn.) IS 1699:1995, RA 2009 DTH-INS-SOP-16 Issue No. & date 01 & 01.04.2011	1-100mg/kg 0.05-2.5 mg/kg
		Vitamin A	IS 5886-1970 RA 2005	10-500µg/100 gm
		Added Vitamin D expressed as Cholacliferol	IS 5835-1970 RA 2005	2-30 µg/100gm
		Iron	Ann-D of IS 14433-2007 AOAC 985.35 19 <sup>th</sup> Edition	3-100mg/100gm
		Vitamin C	IS 5838-1970	2-900mg/100gm

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>51 of 144</b>

<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>26.</b>	<b>Infant Milk Substitutes</b>	Total milk Protein	IS 14433-2007 RA 2012	5-20%
		Moisture	IS 14433-2007 RA 2012	0.1-15.0%
		Milk Fat	IS 14433-2007 RA 2012	0.01-30%
		Total Ash	IS 14433-2007 RA 2012	0.01-20%
		Acid Insoluble Ash	IS 14433-2007 RA 2012	0.05-10%
		Solubility Index	IS 14433-2007 RA 2012	0.1-99.9 ml
		Vitamin A	IS 5886-1970 RA 2005	10-500µg/100 gm
		Vitamin D	IS 5835-1970 AOAC & C 981.17	2-30 µg/100gm
		Iron	IS 14433-2007 RA 2012 Annexure-D AOAC 985.35 (19 <sup>th</sup> edn)	3-100mg/100gm, 3mg/ 100gm 0.5-3.0 mg/100mg 0.5 mg/100mg
		Vitamin C	IS 5838-1970 RA 2005	2-900 mg/100 gm
		Copper	IS 14433-2007, RA 2012 IS 1699-1995, RA 2009 DTH-INS-SOP-17 Issue No. & date 01 & 01.04.2011	1-100mg/kg 0.05-2.5mg/kg
		Iodine	IS 14433-2007, RA 2012	15-40µg/100gm

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>52 of 144</b>

<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>Infant Milk Substitutes</b>	Manganese	IS 3025(P-59) AOAC 985.35 19 <sup>th</sup> edn DTH-INS-SOP-17 Issue No. & date 01 & 01.04.2011	1-100mg/kg 0.05-2.5mg/kg
		Zinc	IS 14433-2007, RA 2012 IS 1699-1995, RA 2009 DTH-INS-SOP-17 Issue No. & date 01 & 01.04.2011	1-100mg/kg 0.05-2.5mg/kg
		Aflatoxin M1	Milk/SOP/Elisa/01	0.01-1.0 µg/kg
<b>27.</b>	<b>Specification For “Ready-To-Eat” Protein-Rich Food IS 9487-1980</b>	Protein	IS 7219-1973 RA 2005	0.1-50%
		Moisture	App-A of IS 1011-2002 amd-1	0.1-15.0%
		Total Ash	Ann-E of IS 1011-2002 amd-1	0.01-20%
		Acid Insoluble Ash	Ann-E of IS 1011-2002 amd-1	0.01-10%
		Crude Fibre (On dry basis)	App-A of IS 1656-2007 amd-1	0.01-5%
		Calories	Calculation , IS 14433-2007	200-500 Kcals/100gm
		Vitamin A	IS 5886-1970 RA 2005	10-500µg/100 gm
		Vitamin D	AOAC 981.17(19 <sup>th</sup> Edn.)	2-30 µg/100gm
		Iron	IS 14433-2007 RA 2012,AOAC 985.35 19 <sup>th</sup> Edition	1-100 mg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>53 of 144</b>

<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>Specification For “Ready-To-Eat’ Protein-Rich Food IS 9487-1980</b>	Oxalic acid	IS 6109-1971 RA 2005 amd-1	0.05-5%
		Thiamine	Food/SOP/Vitamins/03 Issue No. & Date 01-18.01.2010	1-100mg/kg
		Riboflavin		1-100mg/kg
		Nicotinic acid		1-100mg/kg
		Calcium	AOAC 985.35 19 <sup>th</sup> Edition	1.0-4 mg/100g
		Ascorbic acid	IS 5838-1970 RA 2005	2-900mg/kg
		Vitamin B12	Food/SOP/Vitamins/06 Issue No. & Date 01-09.12.2011	0.001- 10mg/kg
		Folic acid	Food/SOP/Vitamins/03 Issue No. & Date 01-09.12.2011	100-500µg/kg 100
<b>28.</b>	<b>Protein Rich Food Supplements for Infants and Pre-School Children IS 7021-1973</b>	Aflatoxin M1	DTH/SOP/CHEM/INST/12	0.01-1.0 µg/kg
		Protein	IS 7219-1973 RA 2005 IS 4684-1975 RA 2005	0.1-50%
		Moisture	App-B of IS 4684-1975 RA 2005	0.01-15%
		Fat	App-F of IS 4684-1975 RA 2005	0.1-30 %

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>54 of 144</b>

<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>Protein Rich Food Supplements for Infants and Pre-School Children IS 7021-1973</b>	Total Ash	Ann-D of IS 4684-1975 RA 2005	0.1-20 %
		Acid Insoluble Ash	Ann-E of IS 4684-1975 RA 2005	0.01-10%
		Crude Fibre (On dry basis)	App-H of IS 4684-1975 RA 2005	0.1-25%
		Vitamin A	IS 5886-1970 RA 2005	10-500µg/100gm
		Vitamin D	IS 5835-1970 RA -2005	2-30 µg/100gm
		Calcium	AOAC 985.35 19 <sup>th</sup> Edition	1.0-4 mg/100g
		Iron	IS 14433 -2007 amd-2 AOAC 985.35 19 <sup>th</sup> Edition	1-100 mg/kg
		Thiamine	Food/ SOP /Vitamins/03 Issue No. & Date 01-18.01.2010	1-100mg/kg
		Ascorbic acid	IS 5838-1970 RA 2005	2-900mg/kg
		Folic acid	Food/ SOP /Vitamins/03 Issue No. & Date 01-09.12.2011	100-500µg/kg
		Vitamin B <sub>12</sub>	01-09.12.2011	0.1-10µg/kg
		Nicotinic, acid	Food/ SOP /Vitamins/03 Issue No. & Date 01-18.01.2010	1-100mg/kg
		Riboflavin		1-100mg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>55 of 144</b>

<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>
29.	<b>Food &amp; Food products</b>	Cholesterol	AOAC 994.10 19 <sup>th</sup> Edition	0.5-500 mg/kg
30.	<b>Rice, Soya Flour, Wheat, Grain, Peanut</b>	Total Aflatoxin (B1+B2+G1+G2)	DTH/SOP/CHEM/INST/46 Issue No.& Date 01-14.01.2010 LCMSMS	1.0-50 µg/kg
31.	<b>Protein Rich food, cereal grains</b>	Ochratoxin A	DTH/SOP/CHEM/INST/46 Issue No.& Date 01-14.01.2010 LCMSMS	1.0-50 µg/kg
32.	<b>Cereal , Protein rich food, peanuts, Spices etc</b>	Aflatoxin B <sub>1</sub>	DTH/SOP/CHEM/INST/46 Issue No.& Date 01-14.01.2010 LCMSMS	1.0-50 µg/kg
33.	<b>Gur</b>	Moisture, % by mass	IS 15279- 2003RA 2008 / IS 5982-1990 RA 2007 amd-1	0.01-50%
		Reducing Sugar, % by mass (on dry basis)	IS 15279-2003 RA 2008 / IS 5982-1990 RA 2007 amd-1	2.0-10%
		Sucrose, % by mass(on dry basis)	IS 15279-2003 RA 2008 / IS 5982-1990 RA 2007 amd-1	1-10%
		Sulphur dioxide, (on dry basis)	IS 15279-2003 RA 2008	1-100 mg/kg
		Water insoluble matter, % by mass (on dry basis)	IS 5982-1990 RA 2007 amd-1	0.1-10%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>56 of 144</b>

<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>Gur</b>	Sulphated Ash, % by mass (on dry basis)	IS 1151-2003, IS 15279-2003 RA 2008	0.1-10%
		Acid insoluble Ash, % by mass	IS 12923-1990 RA 2002 amd 2	0.05-50%
<b>34.</b>	<b>Poultry and Meat products</b>	<b>Organo Chlorine Pesticides</b>		
		o,p DDT	DTH/SOP/CHEM/INST/18, Issue No.& Date 01-16.01.2010	10 – 100 µg/kg
		p,p DDT		10 – 100 µg/kg
		o,p DDE	GC-MSMS	10 – 100 µg/kg
		p,p DDE	(AOAC 19 <sup>th</sup> Edition)	10 – 100 µg/kg
		Alfa HCH		10 – 100 µg/kg
		Beta HCH		10 – 100 µg/kg
		Lindane		10 – 100 µg/kg
		HCB		10 – 100 µg/kg
		Aldrine		10 – 100 µg/kg
		Dieldrin		10 – 100 µg/kg
		Carbamates		
		Carbaryl	DTH/SOP/CHEM/INST/23, Issue No.& Date 01-01.12.2008 LC-MSMS	10 – 100 µg/kg
		<b>Pyrethroids</b>		
		Pyrethrin	DTH/SOP/CHEM/INST/41	10 – 1000 µg/kg
		Cyfluthrin	Issue No.& Date 01-01.12.2008	10 – 1000 µg/kg
		Cypermethrin	GCMSMS	10 – 1000 µg/kg
		Deltamethrin		10 – 1000 µg/kg
		Permethrin		10 – 1000 µg/kg



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>57 of 144</b>

<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>Poultry and Meat products</b>	PCB congeners	DTH/SOP/CHEM/INST/40, Issue No.& Date 01-01.12.2008 GC-MSMS	5 – 500 µg/kg
		<b>Drug residue</b>		
		Stilbens		
		Diethylstilbestrol	DTH/SOP/CHEM/INST/34 Issue No.& Date 01-01.12.2008	2- 10 µg/kg
		Hexoestrol		2- 10 µg/kg
		Dienoestrol	LCMSMS	2- 10 µg/kg
		Thiamazol		10- 100 µg/kg
		<b>Steroids</b>	DTH/SOP/CHEM/INST/24, Issue No.& Date 01-01.12.2008	Present/Absent
		Trenbolone		Present/Absent
		19-Nortestosterone		Present/Absent
		Testosteron		Present/Absent
		Estradiol 17-β		50-500 ng/kg
		<b>Resorcylic Acid</b>	DTH/SOP/CHEM/INST/43 Issue No.& Date 01-30.07.2008	
		<b>Lactones</b>		
		Taleranol		0.2- 5 µg/kg
		Zearalaone		0.2- 5 µg/kg
		Zeranol		0.2- 5 µg/kg
		<b>Beta –Agonists</b>		
		Clenbuterol	DTH/SOP/CHEM/INST/25, Issue No.& Date 01-01.12.2008	0.1- 5 µg/kg
		Salbutamol		0.5- 5 µg/kg
		Mabuterol	LCMSMS	0.5- 5 µg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>58 of 144</b>

<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>Poultry and Meat products</b>	Chloramphenicol	DTH/SOP/CHEM/INST/42, Issue No.& Date 01-14.01.2010 LCMS MS [Journal Of Chromatography] 807 PAGE (343-356)]	0.1-10 µg/kg
		<b>Nitroimidazoles</b>		
		Ronidazole	DTH/SOP/CHEM/INST/31	0.1-5 µg/kg
		Dimetridazole	Issue No.& Date 01-01.12.2008	0.1-5 µg/kg
		Metronidazole	LCMSMS	0.1-5 µg/kg
		Ipronidazole		0.1-5 µg/kg
		<b>Nitrofurans</b>	DTH/SOP/CHEM/INST/36,	
		Furazolidone [AOZ]	Issue No.& Date 01-01.12.2008	0.5-10 µg/kg
		Furatadone[AMAZ]	LCMS MS	0.5-10 µg/kg
		Nitrofurantoin [AHZ]	(Agilent Application Note 2003)	0.5-10 µg/kg
		Nitrofurazone[ SEM]		0.5-10 µg/kg
		<b>Tetracyclines</b>	DTH/SOP/CHEM/INST/45	
		Tetracycline	Issue No.& Date 01-30.12.2008	2-10 µg/kg
		4-Epitetracycline	LCMS MS	
		Chlortetracycline	(AOAC-995.09/1999)	2-10 µg/kg
		4-Epichlortetracycline		
		Oxytetracycline		2-10 µg/kg
		4-Epioxytetracycline		

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>59 of 144</b>

<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>Poultry and Meat products</b>	<b>Sulfonamides</b>	DTH/SOP/CHEM/INST/44	
		Sulphamethazine	Issue No.& Date	1-10 µg/kg
		Sulphamethiazole	01-01.12.2008	1-10 µg/kg
		Sulphadiazine	LCMSMS	1-10 µg/kg
		Amoxicillin	DTH/SOP/CHEM/INST/37	5-50 µg/kg
			Issue No.& Date	
			01-01.12.2008	
			LCMS MS	
		<b>Fluoroquinolones</b>	DTH/SOP/CHEM/INST/28,	
		Difloxasin	Issue No.& Date	10-100 µg/kg
		Flumequin	01-01.12.2008,LCMSMS	10-100 µg/kg
		Oxolinic Acid		10-100 µg/kg
		enrofloxacin		10-100 µg/kg
		<b>Anthelmintics</b>	DTH/SOP/CHEM/INST/29, Issue	
	Ivermectin	No.& Date	2-10 µg/kg	
	Doramectin	01-01.12.2008	2-10 µg/kg	
	Moxidectin	LCMSMS	2-10 µg/kg	
	<b>Anticoccidials</b>	DTH/SOP/CHEM/INST/22,		
	Albendazole	Issue No.& Date	10-100 µg/kg	
	Fenbendazole	01-01.12.2008	10-100 µg/kg	
	Flubendazole	LCMSMS	10-100 µg/kg	
	Mebendazole		10-100 µg/kg	



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>61 of 144</b>

<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>Rice</b>	Methyl parathion Fenitrotrion Phenthoate Phosalone 2,4-D Carfentrazone ethyl Thiram	DTH/SOP/CHEM/INST/47 Issue No.& Date 01-02.06.2012	10-1000 µg/kg 10-1000 µg/kg 10-1000 µg/kg 10-1000 µg/kg 10-1000 µg/kg 10-1000µg/kg 10-1000µg/kg
		<b>Heavy Metals</b>		
		Lead	DTH-INS-SOP-08	10-100 µg/kg
		Arsenic	DTH-INS-SOP-08	10-100 µg/kg
		Cadmium	DTH-INS-SOP-08	10-100 µg/kg
		Quick silver	DTH-INS-SOP-08	10-100 µg/kg
		Mycotoxins	DTH/SOP/CHEM/INST/46, Issue No.& Date 01-14.01.2010	0.5-100µg/kg
		Total Aflatoxin (B1+B2+G1+G2)	LCMSMS	
		Ochratoxin		1.0-100µg/kg
<b>36.</b>	<b>Spices , Ready to eat, Processed food</b>	Sudan dyes I	LCMSMS	1.0-100µg/kg
		Sudan dyes II		1.0-100µg/kg
		Sudan dyes III		1.0-100µg/kg
		Sudan dyes IV		1.0-100µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>62 of 144</b>

<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>
37.	Guar gum	2,3,7,8 Tetra chloro di-benzo-p-dioxin (TCDD)	Guargum/ SOP / TCDD/Residue/02 method adopted from USEPA: 1613	4- 400 ng/kg 3ng/kg
		Pentachlorophenol (PCP)	Guargum/ SOP / TCDD/Residue/01 method adopted from AOAC. 985.24	10-300 µg/kg 5 µg/kg
38.	Alcoholic beverages & alcoholic mixes	Relative density	IS 3752-2005	0.7-1.0
		Ethyl alcohol content	IS 3752-2005, IS 7585:1995, IS 3865:2001	1-90%
		Total acid as tartaric acid	IS 3752-2005, IS 7585:1995	0-30 g/ l
		Volatile acidity as acetic acid	IS 3752-2005, IS 7585:1995	0-30 g/ l
		Total sulphur dioxide	IS 3752-2005, IS 7585:1995	10-500 mg/ l
		Residue on evaporation	IS 3752-2005, IS 7585:1995	0.01-50%
		Copper	IS 6854-1973, RA 2009/AAS	0.25-50 mg/ l
		Arsenic	IS 6854-1973, RA 2009/AAS	0.25-50 mg/ l
		Iron	IS 6854-1973, RA 2009/AAS	0.25-50 mg/ l
		Lead	IS 6854-1973, RA 2009/AAS	0.25-50 mg/ l
		Esters as CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> )	IS 3752-2005	0.1-200 g/ l
		Methyl alcohol	IS 3752-2005, IS 3865:2001	2-100 g/100 l
		Furfural	IS 3752-2005	1-100 g/100l
Aldehyde as acetaldehyde	IS 3752-2005, IS 6613:2002	1-100 g/100 l		
Higher alcohol as Isoamyl alcohol	IS 3752-2005	0.01-5.0%		
pH	IS 3865-2001	1.01-9.05		

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>63 of 144</b>

<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>
39.	<b>Chocolates (plain, blended white, filled, composite) IS 1163-1992</b>	Total fat	IS 1163-1992	0.1-50%
		Milk fat	IS 1163-1992	0.1-15%
		Milk solids	IS 1163-1992	0.1-15%
		Sugar (as sucrose)	IS 1163-1992	0.1-99.9%
		Acid insoluble ash	IS 1163-1992	0.01-10%
40.	<b>Macroni products (Macaroni spaghetti Vermiculli, agg noodles ) IS 1485-1983</b>	Moisture	IS 1485-1983	0.01-30%
		Total ash	IS 1485-1983	0.01-20%
		Ash insoluble in dilute HCl	IS 1485-1983	0.01-5%
		Protein	IS 1485-1983	0.02-10.0
41.	<b>Oils, Fats and Related Products</b>	Iodine value	IS 548-(P-2)-1964	1-180
42.	<b>Grains &amp; Rice Pulses, Wheat, Wheat Flour, Maize, Biscuit, Bread, Oil Seed</b>	Alcoholic acidity	IS 1155-1968	0.02-12.0

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>64 of 144</b>

<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>43.</b>	<b>Cereals and Grains (Whole &amp; Ground)</b>	Foreign Matter/Extraneous Matter (Mineral Matter, Organic Matter, Animal impurities)	IS 4333(P-I)-1996 RH 2001 IS 2813-1995 RA-2005 Am-1 DGHS Lab Manual -3-2012	0.01 -50%
		Insects, Insect Fragment, Insect Infestation	Visual Examination	Present/Absent
		Argemone Seed	Visual Examination	Present/Absent
		Khesari Dal	DGHS Lab Manual -3-2012	Present/Absent
		Rodent hair & excreta	DGHS Lab Manual -3-2012	Present/Absent
		Presence of Mould	DGHS Lab Manual -3-2012	Present/Absent
		Test for Added Colour	DGHS Lab Manual -3-2012	Present/Absent
		Test for Mineral Oil	DGHS Lab Manual -2-2012 IS 548(P-II)-1976	Present/Absent
		Micro Scopic Examination	DGHS Lab Manual -3-2012	Qualitative
		Aflatoxin B1	DTH/SOP/CHEM/INST/46	0.5 – 100 µg/kg
		Aflatoxin B2	Issue No.& Date	0.3 – 100 µg/kg
		Aflatoxin G1	01-14.01.2010	0.5 – 100 µg/kg
		Aflatoxin G2	LCMSMS	0.3 – 100 µg/kg
		Ochratoxin		0.5-10.0 µg/kg
		Pesticide Residue	DTH/SOP/CHEM/INST/47	
		Alpha HCH	Issue No.& Date	10 – 1000 µg/kg
		Beta HCH	01-02.06.2012	10 – 1000 µg/kg
Delta HCH	(AOAC 19 <sup>th</sup> Edition )	10 – 1000 µg/kg		
Gamma HCH (Lindane)	GC-ECD & GCMS	10 – 1000 µg/kg		
Hexachlorobenzol		10 – 1000 µg/kg		
Parathion methyl		10 – 1000 µg/kg		
Fennitrothion		10 – 1000 µg/kg		
4,4-DDT		10 – 1000 µg/kg		
2,4-DDD		10 – 1000 µg/kg		



<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>65 of 144</b>

<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>Cereals and Grains (Whole &amp; Ground)</b>	4,4-DDD	DTH/SOP/CHEM/INST/47	10 – 1000 µg/kg
		2,4-DDE	Issue No.& Date	10 – 1000 µg/kg
		4,4-DDE	01-02.06.2012	10 – 1000 µg/kg
		2,4- DDT	(AOAC 19 <sup>th</sup> Edition )	10 – 1000 µg/kg
		Deltamethrin	GC-ECD & GCMS	10 – 1000 µg/kg
		Thiram		10 – 1000 µg/kg
		Carfentrazone ethyl		10 – 1000 µg/kg
		Aldrin		10 – 1000 µg/kg
		Dieldrin		10 – 1000 µg/kg
		Carbaryl		10 – 1000 µg/kg
		Chlordane		10 – 1000 µg/kg
		Diazinon		10 – 1000 µg/kg
		Diclorvos		10 – 1000 µg/kg
		Heptachlor		10 – 1000 µg/kg
		Hydrogen cyanide		10 – 1000 µg/kg
		Hydrogen Phosphide		10 – 1000 µg/kg
		Inorganic Bromide		10 – 1000 µg/kg
		Malathion		10 – 1000 µg/kg
		Phosphamidon		10 – 1000 µg/kg
		Pyrethrins		10 – 1000 µg/kg
	Chlorienvinphos		10 – 1000 µg/kg	
	Chlorpyrifos		10 – 1000 µg/kg	
	2,4-D		10 – 1000 µg/kg	
	Ethion		10 – 1000 µg/kg	
	Monocrotophos		10 – 1000 µg/kg	
	Paraquat Dichloride		10 – 1000 µg/kg	
	Trichlorfon		10 – 1000 µg/kg	
	Thiometon		10 – 1000 µg/kg	
	Atrazine		10 – 1000 µg/kg	
	Carbendazim		10 – 1000 µg/kg	
	Benomyl		10 – 1000 µg/kg	

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>66 of 144</b>

<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>Cereals and Grains (Whole &amp; Ground)</b>	Carbofuran	DTH/SOP/CHEM/INST/47	10 – 1000 µg/kg
		Cypermethrin	Issue No.& Date	10 – 1000 µg/kg
		Deltamethrin	01-02.06.2012	10 – 1000 µg/kg
		Edifenphos	(AOAC 19 <sup>th</sup> Edition )	10 – 1000 µg/kg
		Fenthion	GC-ECD & GCMS	10 – 1000 µg/kg
		Dithiocarbamates		10 – 1000 µg/kg
		Phenthoate		10 – 1000 µg/kg
		Phorate		10 – 1000 µg/kg
		Simazine		10 – 1000 µg/kg
		Primiphos Methyl		10 – 1000 µg/kg
		Cartap Hydrochloride		10 – 1000 µg/kg
		Diuron		10 – 1000 µg/kg
		Oxadiazon		10 – 1000 µg/kg
		Oxydemeton methyl		10 – 1000 µg/kg
		Permethrin		10 – 1000 µg/kg
		Triazophos		10 – 1000 µg/kg
		Iprodione		10 – 1000 µg/kg
		Ethoxysulfuron		10 – 1000 µg/kg
		Oxyfluorfen		10 – 1000 µg/kg
		Carbosulfan		10 – 1000 µg/kg
		Tricyclazole		10 – 1000 µg/kg
		Imidacloprid		10 – 1000 µg/kg
		Butachlor		10 – 1000 µg/kg
		Pendimethalin		10 – 1000 µg/kg
		Pretilachlor		10 – 1000 µg/kg
		Cyhalofop butyl		10 – 1000 µg/kg
		Thiamethoxam		10 – 1000 µg/kg
		Fenobucarb		10 – 1000 µg/kg
		Anilophos		10 – 1000 µg/kg
		Isoprothalane		10 – 1000 µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>67 of 144</b>

<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>Cereals and Grains (Whole &amp; Ground)</b>	Ethofenprox	DTH/SOP/CHEM/INST/47	10 – 1000 µg/kg
		Benfucarb	Issue No.& Date	10 – 1000 µg/kg
		Flufenacet	01-02.06.2012	10 – 1000 µg/kg
		Buprofezin	(AOAC 19 <sup>th</sup> Edition )	10 – 1000 µg/kg
		Pyrazosulfuron ethyl	GC-ECD & GCMS	10 – 1000 µg/kg
		Thioclopid		10 – 1000 µg/kg
		Cyfluthrin (Sum of Isomer)		10 – 1000 µg/kg
		Thiophanate Methyl		10 – 1000 µg/kg
		Bifenthrin		10 – 1000 µg/kg
		4-trifluoromethylnicotinic acid (TFNA)		10 – 1000 µg/kg
		Fonicamid		10 – 1000 µg/kg
		Metconazole		10 – 1000 µg/kg
		Prothioconazole (Prothioconazole desthio)		10 – 1000 µg/kg
		Tebufenozide		10 – 1000 µg/kg
<b>44.</b>	<b>Oil Seeds</b>	Aflatoxin B1	AOAC 968.22 19 <sup>th</sup> Edition	0.5 – 100 µg/kg
		Aflatoxin B2	AOAC 968.22 19 <sup>th</sup> Edition	0.5 – 100 µg/kg
		Aflatoxin G1	AOAC 970.45 19 <sup>th</sup> Edition	0.5 – 100 µg/kg
		Aflatoxin G2	AOAC 970.45 19 <sup>th</sup> Edition	0.5 – 100 µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>68 of 144</b>

<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>Oil Seeds</b>	<b>Organochlorine</b>	(GC-MSMS) AOAC 19 <sup>th</sup> Edition	
		Aldrin		10 – 1000 µg/kg
		Dieldrin		10 – 1000 µg/kg
		Chlordane		10 – 1000 µg/kg
		Chlorothalonil		10 – 1000 µg/kg
		4,4-DDT		10 – 1000 µg/kg
		2,4-DDD		10 – 1000 µg/kg
		4,4-DDD		10 – 1000 µg/kg
		2,4-DDE		10 – 1000 µg/kg
		4,4-DDE		10 – 1000 µg/kg
		2,4- DDT		10 – 1000 µg/kg
		Endosulphan (All isomers-Alpha Endosulphan,Beta Endosulphan, Endosulphan Sulphate)		10 – 1000 µg/kg
		Endrin		10 – 1000 µg/kg
		Alpha HCH		10 – 1000 µg/kg
		Beta HCH		10 – 1000 µg/kg
		Delta HCH		10 – 1000 µg/kg
		Heptachlor Epoxide		10 – 1000 µg/kg
		Pendimethalin		10 – 1000 µg/kg
<b>45.</b>	<b>Tea &amp; Tea Powder</b>	<b>Pesticide Residue</b>	(GCMSMS) AOAC 19 <sup>th</sup> Edition 970.52, EPA 3630	
		Alpha HCH		10 – 1000 µg/kg
		Beta HCH		10 – 1000 µg/kg
		Delta HCH		10 – 1000 µg/kg
		Lindane		10 – 1000 µg/kg
		Heptachlor		10 – 1000 µg/kg
		Heptachlor Epoxide		10 – 1000 µg/kg
		Aldrin		10 – 1000 µg/kg
		Dieldrin		10 – 1000 µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>69 of 144</b>

<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>Tea &amp; Tea Powder</b>	Endrin	(GCMSMS)	10 – 1000 µg/kg
		4,4-DDT	AOAC 19 <sup>th</sup> Edition 970.52,	10 – 1000 µg/kg
		2,4-DDD	EPA 3630	10 – 1000 µg/kg
		4,4-DDD		10 – 1000 µg/kg
		2,4-DDE		10 – 1000 µg/kg
		4,4-DDE		10 – 1000 µg/kg
		2,4- DDT		10 – 1000 µg/kg
		Endosulphan (All isomers- Alpha Endosulphan, Beta Endosulphan, Endosulphan Sulphate)		10 – 1000 µg/kg
		Parathion methyl		10 – 1000 µg/kg
<b>46.</b>	<b>Spices -Whole &amp; Ground (Chilli, Corinder &amp; turmeric)</b>	Bitterness Expressed as direct reading of Absorbance of Picrocrocin at about 257 nm	IS 5453(P-2)-1996 DGHS Lab Manual 10:2012	5-90%
		Safranal Expressed as direct Reading of Absorbance 330 nm	IS 5453(P-2)-1996 DGHS Lab Manual 10:2012	5-90%
		Colouring Stranth Expresser as direct reading of absorbance of uonm	IS 5453(P-2)-1996 DGHS Lab Manual 10:2012	5-50%
		Pesticide Residue		
		Alpha HCH	GCMS & GC-ECD	10 – 1000 µg/kg
		Beta HCH	(QuEChERS method & AOAC 19 <sup>th</sup> Edition)	10 – 1000 µg/kg
		Delta HCH		10 – 1000 µg/kg
		Lindane		10 – 1000 µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>70 of 144</b>

<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>Spices -Whole &amp; Ground (Chilli, Corinder &amp; turmeric)</b>	Heptachlor	GCMS & GC-ECD (QuEChERS method & AOAC 19 <sup>th</sup> Edition)	10 – 1000 µg/kg
		Heptachlor Epoxide		10 – 1000 µg/kg
		Aldrin		10 – 1000 µg/kg
		Dieldrin		10 – 1000 µg/kg
		Endrin		10 – 1000 µg/kg
		4,4-DDT		10 – 1000 µg/kg
		2,4-DDD		10 – 1000 µg/kg
		4,4-DDD		10 – 1000 µg/kg
		2,4-DDE		10 – 1000 µg/kg
		4,4-DDE		10 – 1000 µg/kg
		2,4- DDT		10 – 1000 µg/kg
	Endosulphan (All isomers- Alpha Endosulphan, Beta Endosulphan, Endosulphan Sulphate)	10 – 1000 µg/kg		
<b>47.</b>	<b>Fresh Fruit &amp; Vegetable</b>	Test for Rotting	Visual Examination/ IS 4333 (P-1):1996	Present/Absent
		Rodent Contamination		Present/Absent
		Mould		Present/Absent
		Added Wax coating	Visual/Hexane Method/ DTH/SOP/Food/18	Present/Absent
		Added Colouring Matter		DGHS Manual-8-2012

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>71 of 144</b>

<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>Fresh Fruit &amp; Vegetable</b>	Pesticide Residue Thiometon Hexachlorocyclohexane (alpha,Beta,Gamma,Delta isomer) Pyrethrins Dichlortrichlorfon Dithiocarbamates (Mancozeb, Thiram) Paraquat Dichloride	DTH/SOP/CHEM/INS/51 Issue No.& Date 01-25.12.2008	10- 1000 µg/kg 10- 1000 µg/kg 10 – 1000 µg/kg 10 – 1000 µg/kg 50- 500 µg/kg 1.0-2.0 mg/kg
<b>48.</b>	<b>Milk &amp; Milk Product</b>	Sodium Citrates  Potassium Citrates Lecithins BHA  Sodium Carbonate  Calcium Carbonate  Added Colour  Sulfonamides Sulfamethazine	Chemical Codex 5 <sup>th</sup> Ed. 2004  DGHS Lab Manual 8:2012  Chemical Codex 5 <sup>th</sup> Ed. 2004  Chemical Codex 5 <sup>th</sup> Ed. 2004  DGHS Lab Manual 8:2012  DTH/SOP/CHEM/INST/02 Issue No.& Date 01-08.05.2013 LCMS MS	1-20 g/kg  1-20 g/kg 1-20 g/kg 10 to 1000mg/kg  10 to 2000mg/kg  10 to 2000mg/kg  Qualitative Present/Absent  10-1000 µg/kg

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>72 of 144</b>

<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>Milk &amp; Milk Product</b>	Tetracyclines	DTH/SOP/CHEM/INST/03 Issue No.& Date	
		4-Epitetracycline	01-30.07.2008	25-1000 µg/kg
		4-Epioxytetracycline	LCMS MS	25-1000 µg/kg
		4-Epichlortetracycline	(AOAC-995.09/1999)	25-1000 µg/kg
		Antibacterial Substance Framycetin		50-1000 µg/kg
		Pesticide Residue	DTH/SOP/CHEM/INST/11 Issue No.& Date	
		DDT & its all isomer	01-18.12.2008	10-100 µg/kg
		Fenitrothion	LCMSMS, GCMS	10-100 µg/kg
		Hexachlorocyclohexane		10-100 µg/kg
		Alpha isomer		10-100 µg/kg
		Beta isomer		10-100 µg/kg
		Delta isomer		10-100 µg/kg
		Chlorienvinphos		10-100 µg/kg
		Chlorpyrifos		10-100 µg/kg
		2,4-D		10-100 µg/kg
		Monocrotophos		10-100 µg/kg
		Paraquat Dichloride		10-100 µg/kg
		Trichlorfon		10-100 µg/kg
		Carbendazim		10-100 µg/kg
		Benomyl		10-100 µg/kg
		Carbofuran		10-100 µg/kg
	Edifenphos		10-100 µg/kg	
	Fenthion		10-100 µg/kg	
	Fenvalerate		10-100 µg/kg	
	Phenthoate		10-100 µg/kg	
	Phorate		10-100 µg/kg	
	Simazine		10-100 µg/kg	



<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>73 of 144</b>

<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>49.</b>	<b>Meat &amp; Meat Product Fish &amp; Fish Product/ Sea Food</b>	Extraneous Matter.	Visual Examination	
		Ash insoluble in dilute HCl	DGHS Lab Manual 6:2012, IS 5960(P-2)2008	0.01 - 30%
		Acidity of extracted Fat (as oleic acids)	DGHS Lab Manual, 6:2012	0.05 - 50%
		Sugar	DGHS Lab Manual, 1:2012	Qualitative (Present/Absent)
		Starch	DGHS Lab Manual, 6:2012	Qualitative (Present/Absent)
		Histamine	DGHS Lab Manual, 6:2012, TLC Method	5-100mg/100g
		TVBN (Total Volatile base Nitrogen)	DGHS Lab Manual, 6:2012	1-100mg/100g
		Mercury	AOAC 971:21 & 988.11 19 <sup>th</sup> Edition	0.4 - 100mg/kg
		Cadmium	AOAC 999:11 19 <sup>th</sup> Edn	0.4 -100mg/kg
		Added colour	DGHS Lab Manual, 8:2012	5 - 500mg/kg
Moisture	IS 5960(P-5)2001 DGHS Lab Manual, 6:2012	0.1-90%		

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>74 of 144</b>

<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>Meat &amp; Meat Product</b>	Ascorbic Acid	IS 5838-1970	1-2000 mg/kg
	<b>Fish &amp; Fish Product/ Sea Food</b>	Phosphorus as (P <sub>2</sub> O <sub>5</sub> )	DGHS Lab Manual -6-2012	10-5000 mg/kg
		Nitrite (as NaNO <sub>2</sub> )	DGHS Lab Manual -3-2012 AOAC-971.33 19 <sup>TH</sup> Edn 2012 IS 5960(P-VII)-1996	10-1000 mg/kg
		Aldrin	(GC-MS/LCMSMS)	10 – 100 µg/kg
		Dieldrin	AOAC 19 <sup>th</sup> Edition	10 – 100 µg/kg
		Chlorothalonil		10 – 100 µg/kg
		4,4-DDT		10 – 100 µg/kg
		2,4-DDD		
		4,4-DDD		
		2,4-DDE		
		4,4-DDE		
		2,4- DDT		
		Endosulphan (All isomers-Alpha Endosulphan,Beta Endosulphan, Endosulphan Sulphate)		10 – 100 µg/kg
		Endrin		10 – 100 µg/kg
		Alpha HCH		10 – 100 µg/kg
		Beta HCH		10 – 100 µg/kg
		Delta HCH		10 – 100 µg/kg
		Heptachlor		10 – 100 µg/kg
		Lindane		10 – 100 µg/kg
		Parathion		10 – 100 µg/kg
		Heptachlor Epoxide		10 – 100 µg/kg
		Pendimethalin		10 – 100 µg/kg
		Fenitrothion		10 – 100 µg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>75 of 144</b>

<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>Meat &amp; Meat Product</b>	Chlorienvinphos	(GC-MS/LCMSMS)	10 – 100 µg/kg
	<b>Fish &amp; Fish Product/ Sea Food</b>	Chlorpyrifos	AOAC 19 <sup>th</sup> Edition	10 – 100 µg/kg
		2,4-D		10 – 100 µg/kg
		Ethion		10 – 100 µg/kg
		Monocrotophos		10 – 100 µg/kg
		Trichlorfon		10 – 100 µg/kg
		Carbendazim		10 – 100 µg/kg
		Benomyl		10 – 100 µg/kg
		Carbofuran		10 – 100 µg/kg
		Cypermethrin		10 – 100 µg/kg
		Edifenphos		10 – 100 µg/kg
		Fenthion		10 – 100 µg/kg
		Fenvalerate		10 – 100 µg/kg
		Phenthoate		10 – 100 µg/kg
		Phorate		10 – 100 µg/kg
		Primiphos methyl		10 – 100 µg/kg

**Laboratory** Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Chemical Testing **Issue Date** 03.03.2014

**Certificate Number** T-0173 **Valid Until** 02.03.2016

**Last Amended on** - **Page** 76 of 144

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
50.	Non alcoholic Beverages. Carbonated Beverages/ Sweetened Carbonated Beverage	Caffeine	IS 2791-1992 DGHS Lab Manual -8-2012	5-2000 mg/kg
		Ester gum	DGHS Lab Manual -8-2012	5-1000 mg/kg
		Quinine	DGHS Lab Manual -8-2012	5-1000 mg/kg
		Aspartame	DGHS Lab Manual -8-2012	5-2000 mg/kg
		Acesulphame-k	DGHS Lab Manual -8-2012	5-2000 mg/kg
		Saccharin	DGHS Lab Manual -8-2012	5-2000 mg/kg
		Benzoic Acid	DGHS Lab Manual -8-2012	2-2000 mg/kg
		Lead	AOAC 999.10 19 <sup>TH</sup> Edn 2012  DTH/INS/SOP/22 Issue No & Date 01 & 01.12.2013	0.25-100 mg/l  0.01-0.25mg/l
		Copper	AOAC 999.10 19 <sup>TH</sup> Edn 2012  DTH/INS/SOP/22 Issue No & Date 01 & 01.12.2013	0.25-100 mg/kg  0.01-0.25mg/l
		Arsenic	AOAC 986.15 19 <sup>TH</sup> Edn 2012  DTH/INS/SOP/22 Issue No & Date 01 & 01.12.2013	0.25-100 mg/kg  0.01-0.25mg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>77 of 144</b>

<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>
		Zinc	AOAC 999.10 19 <sup>TH</sup> Edn 2012	0.25-100 mg/kg
			DTH/INS/SOP/22 Issue No & Date 01 & 01.12.2013	0.01-0.25mg/l
<b>51.</b>	<b>Alcoholic beverages &amp; alcoholic mixes</b>	Physical Examination (Suspended or sediment Particles )	Visual Examination	Qualitative Present/Absent
		Taste & Aroma	Organoleptic	NA
		Colour	Visual	Qualitative Present/Absent
		Ash Content	IS 3752-2005	0.1-20%
		Fixed Acidity	IS 3752-2005	0.5-50g/100 l
		Free Sulphur dioxide	IS 7585-1995	2-1000mg/kg
		Artificial sweetner (Aspartame, Saccharin Sodium)	DGHS Lab Manual 8-2012	Qualitative Present/Absent
		Added Colour Excepted Caramel	DGHS Lab Manual 8:2012 AOAC 948.07, 19 <sup>th</sup> Ed.	Qualitative Present/Absent
		Mono Sodium Glutamate	DGHS Lab Manual -8-2012	Qualitative Present/Absent

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>78 of 144</b>

<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>
		Reducing sugar	IS 7585:1995	0.5-90%
		Extracts	IS 7585:1995	0.1-60g/l
<b>52.</b>	<b>Seasoning Powder</b>	Extraneous Matter	Visual Examination DGHS Lab Manual -3:2012	Qualitative Present/Absent
		Insects and Insect Infestation	Visual Examination	Qualitative Present/Absent
		Rodent hair & excreta	DGHS Lab Manual 3:2012	Qualitative Present/Absent
		Added Colour Saffron	DGHS Lab Manual 8:2012	Qualitative Present/Absent
		Sulphur dioxide	DGHS Lab Manual, 5 & 8:2012 IS 4706(P-II)-1978 AOAC 990.28, 19 <sup>TH</sup> Edn 2012	5 To 3000mg/kg
		Calcium and Magnesium Carbonate	DGHS Lab Manual, 8:2012	1-20%
		Hydrocyanic Acid (HCN)	IS 548(P-11)-1976 RA 2006/AOAC915.03 19 <sup>TH</sup> 2012	2.7 To 25mg/kg
		Lead	AOAC 999.11 19 <sup>TH</sup> EDN2012	1.25-100 mg/kg
			DTH/SOP/INS/20 Issue No. & date 01& 05.05.2011	0.05-2.5mg/kg

**Laboratory** Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Chemical Testing **Issue Date** 03.03.2014

**Certificate Number** T-0173 **Valid Until** 02.03.2016

**Last Amended on** - **Page** 79 of 144

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Seasoning Powder	Copper	AOAC 999.11 19 <sup>TH</sup> EDN2012	2.5-100 mg/kg
			DTH/SOP/INS/20 Issue No. & date 01& 05.05.2011	0.05-2.5mg/kg
		Arsenic	AOAC 986.15 19 <sup>TH</sup> EDN2012	0.5-100 mg/kg
			DTH/SOP/INS/20 Issue No. & date 01& 05.05.2011	0.05-2.5mg/kg
		Tin	AOAC 985.10 19 <sup>TH</sup> EDN2012	10.0 -250 mg/kg
			DTH/SOP/INS/20 Issue No. & date 01& 05.05.2011	0.05-2.5mg/kg
		Zinc	AOAC 999.11 19 <sup>TH</sup> EDN2012	2.5- 100.0 mg/kg
			DTH/SOP/INS/20 Issue No. & date 01& 05.05.2011	0.05-2.5mg/kg
		Cadmium	AOAC 999.11 19 <sup>th</sup> Ed.	0.5-100 mg/kg
			DTH/SOP/INS/20 Issue No. & date 01& 05.05.2011	0.05-2.5mg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>80 of 144</b>

<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>
53.	<b>Oil and Fats Related Products</b>	Foreign Matter	Visual Examination	Qualitative Present/Absent
		Suspended Separated Water	Visual Examination	Qualitative Present/Absent
54.	<b>Additive Mono Sodium Glutamate</b>	Purity	Food Chemical Codex 5 <sup>th</sup> Ed. 2004	50-100%
		Chloride	Food Chemical Codex 5 <sup>th</sup> Ed. 2004	0.0-10%
		Loss on drying	Food Chemical Codex 5 <sup>th</sup> Ed. 2004	0.01-20%
		Lead (Pb)	Food Chemical Codex 5 <sup>th</sup> Ed. 2004	0.5-100 mg/kg 0.5 mg/kg
55.	<b>Edible Common Salt Iodised salt, Iron Fortified Common Salt, Potassium Iodate</b>	Moisture	IS 253-1985	0.01-30%
		Sodium Chloride (NaCl)	IS 253-1985	1-99.9%
		Matter Soluble in Water other than sodium chloride.	IS 253-1985	0.01-20%
		Water insoluble matter	IS 253-1985	0.01-20%
		Matter Insoluble in dilute HCl	IS 253-1985	0.01-20%
		Iodine Content)	IS 7224-2006	1-100 mg/kg
		Calcium (as Ca)	IS 253-1985	0.01-20%
		Phosphorus (Po <sub>4</sub> )	IS 253-1985	0.01-20%
		Alkalinity as (Na <sub>2</sub> CO <sub>3</sub> )	IS 253-1985	0.01-20%
		Sulphate as (SO <sub>4</sub> )	IS 253-1985	0.01-20%
		Magnesium as (Mg)	IS 253-1985	0.01-20%
Potassium Iodate as (KIO <sub>3</sub> )	IS 253-1985	0.1-99.9%		
Solubility in water	IS 13057-1991	1-99.0%		



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>81 of 144</b>

<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>Edible Common Salt Iodised salt, Iron Fortified Common Salt, Potassium Iodate</b>	Iron Content	IS 253-1985/ AOAC.999.11 19 <sup>TH</sup> Edn 2012	1-100 mg/kg
		Lead	AOAC.999.11 19 <sup>TH</sup> Edn 2005	1-100 mg/kg
		Copper	AOAC.999.11 19 <sup>TH</sup> Edn 2005	0.5-100 mg/kg
		Arsenic	AOAC.986.15 19 <sup>TH</sup> Edn 2005	0.1-100mg/kg
		Description	IS 253-1985/Visual	NA
		Particle Size	IS 253-1985/Visual	1-99.9%
<b>56.</b>	<b>Sweetening Agents- Sugar Misri, Dextrose, Golden Syrup, Dried Glucose Syrup</b>	Loss on drying	IS 15279-2003 DGHS Lab Manual, 4:2012 IS 874-1992	0.001-20%
		Reducing Sugar	IS 6287-1985 DGHS Lab Manual, 4:2012	0.01-99.9%
		Colour in ICUMSA Unit	IS 15279-2003	10-100 IU
		Conductivity ash	IS 15279-2003 DGHS Lab Manual, 4:2012	1-20000 µs/cm
		Starch	IS 15279-2003 DGHS Lab Manual, 4:2012	1.0-40%
		Total Sugar /Invert Sugar	IS 6287-1985 DGHS Lab Manual, 4:2012	1.0-99.9%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>82 of 144</b>

<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>Sweetening Agents- Sugar Misri, Dextrose, Golden Syrup, Dried Glucose Syrup</b>	Sucrose	IS 6287-1985 DGHS Lab Manual, 4:2012	0.0-99.9%
		Sulphur dioxide	IS 4706(P-2)-1978 AOAC-990.28 19 <sup>TH</sup> Edn2012 DGHS Lab Manual, 4:2012	1-2000 mg/kg
		Polarization	IS 1579-2003 DGHS Lab Manual, 4:2012	1-100%
		Lead	AOAC: 997.15, 19th Edn.	0.25-100.0 mg/kg
		Tin	AOAC: 985, 19th Edn.	5 - 100 mg/kg
		Chromium.	AOAC 990.08, 05 19 <sup>th</sup> Edn.	1.0-100 mg/kg
		Copper	AOAC: 999, 19 <sup>th</sup> Edn.	2.5-100.0 mg/kg
		Arsenic	AOAC: 986.15, 19 <sup>th</sup> Edn.	0.5-100 mg/kg
		Zinc	AOAC: 999.10, 19 <sup>th</sup> Edn.	2.5-100.0 mg/kg
		Mercury	AOAC: 971.21, 19 <sup>th</sup> Edn.	0.1-10.0 mg/kg
		Cadmium	IS 874-1992, AOAC 19 <sup>th</sup> Edn.	1.0-100.0 mg/kg
		Ash Insoluble in dilute HCl	IS 6287-1985 DGHS Lab Manual, 4:2012	0.01-30.0%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>83 of 144</b>

<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>Sweetening Agents- Sugar Misri, Dextrose, Golden Syrup, Dried Glucose Syrup</b>	Calcium Oxide	IS 1797-1985 DGHS Lab Manual, 4:2012	5-200 mg/100g
		Total Ash	IS 4706(P-II)-1978 IS 6287-1985	0.01-30.0%
		Sulphated Ash	IS 4706(P-2)1978 DGHS Lab Manual, 4:2012	0.01-30.0%
		Acidity	IS 874-1992	0.05-20 ml
		Glucose	IS 873-1974	1.0-99.9%
		Total Solid Content	IS 873-1992	50-99.9%
		pH	IS 4706(P-2)-1978	1.00-13.0
<b>57.</b>	<b>Saccharin Sodium, Acesulfame Potassium, Sucralose, Aspartame</b>	Loss on drying	IP-2010	0.01-30%
		Assay	IP-2010	50-99.9%
		Melting Point	IP-2010	100-250 <sup>0</sup> C
		Free Acid and Alkali	IP-2010	Free from
		Ammonium Compound.	IP-2010	Free from
		Lead	AOAC:999.10 19th Edn	0.25-100 mg/kg
		Arsenic	AOAC:986.15 19th Edn	0.1-100 mg/kg
		Sulphated Ash	IS 4706 (P-2)-1978 DGHS Lab Manual, 4:2012 IS 15279-2003	0.01-30%
	Odour & taste	IP:2010	Organoleptic	
	Solubility	IP:2010	Visual examination	

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>84 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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## II. WATER

<b>1. Potable, Domestic, Packaged Natural Mineral Water, Packaged Drinking Water/ De-mineralized Water IS 1070/ IS 14543-2004/ IS 10500/2012/ IS 13428-2005/ IS 3328-1993/ IS 11624-1986 IS 4251-1967, IS 1070 1992.</b>	Copper		IS 3025 (P-42)-1992 RA 2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05 mg/l 5-100µg/l
	Manganese (as Mn)		IS 3025 (P-59) 2006/ AAS: APHA 3500A -22 <sup>nd</sup> Ed (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.1-0.5 mg/l 1-100 µg/l, 1 µg/l 5-100µg/l
	Zinc		IS 3025, (P-49)-1994 RA 2003(a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.1– 0.5 mg/l 5-100 µg/l,
	Aluminum		IS 15302 -2003/IS 3025(P-55) AAS – APHA 3500B -22 <sup>nd</sup> Ed (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01 – 0.1 mg/l 5 -100µg/l
	Selenium		IS 15302 -2003 IS 3025(P-56)-2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05mg/l 5-100µg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>85 of 144</b>

<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>
	Mercury		IS 3025(P-48)-94/(a)Mercury Analyser Method DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.001 – 0.1 mg/l 5-100µg/l,
	Cadmium		IS 3025 (P-41)-1992 RA 1998(a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.001 –0.005mg/l 5-100µg/l,
	Arsenic		IS 3025 (P-37)-1988 RA 1999 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01 – 0.05 mg/l 5-100µg/l
	Lead		IS 3025 (P-47) –1998 RA 1999 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01 – 0.05 mg/l 5-100µg/l,
	Total Chromium		Ann-J of IS 13428- 2005/IS 3025 (P-52)-2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05 mg/l 5-100µg/l
	Nickel		Ann-L of IS 13428- 2005/IS 3025 (P-54)-2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05 mg/l 5-100µg/l

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>86 of 144</b>

<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>
		Antimony	IS 15303-2003 (A) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.05 – 1 mg/l 0.5-10µg/l, 5-100 µg/l
		Selenium (as Se)	IS 3025(P-56) /IS 15303 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05 mg/l 5-100µg/l
		Chromium (as Cr)	Annex J of IS 13428 – 2005 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05 mg/l 5-100µg/l
		Silver	IS 13428 (Ann I)- 2005 AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01 – 0.05 mg/l 5-100µg/l
		PCB		
		2-Chlorobiphenyl	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		2,2',3,3',4,4',6- Heptachlorobi	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		2,2',3,3',4,5',6,6'- Octachloro	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		2,2',3',4,6-Pentachlorobiphenyl	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		2,2',4,4'- Tetrachlorobiphenyl	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		2,2',4,4',5,6'-	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		Hexachlorobiphenyle		
		2,3-Dichlorobiphenyle	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		2,4,5- Trichlorobiphenyle	APHA 6440 -22 <sup>nd</sup> Ed	0.01 µg/l - 1 µg/l
		Polynuclear Aromatic Hydrocarbons (PAH)		

**Laboratory** Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi

**Accreditation Standard** ISO/IEC 17025: 2005

**Discipline** Chemical Testing **Issue Date** 03.03.2014

**Certificate Number** T-0173 **Valid Until** 02.03.2016

**Last Amended on** - **Page** 87 of 144

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acenaphthene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Acenaphthylene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Anthracene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Benzo (A) Anthracene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Benzo (A) Pyrene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Benzo (B) Fluoranthene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Benzo (GH,I) Perylene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Benzo (K) Fluoranthene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Chrysene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Divenz (A,H) Anthracene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Fluoranthene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Fluorene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Indeno (1,2,3-CD) Pyrene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Naphthalene	APHA 6440 -22 <sup>nd</sup> Ed	0.01-10µg/l
		Phrnanthrene	APHA 6440 -22 <sup>nd</sup> Ed	1-10µg/l
		Pyrene	APHA 6440 -22 <sup>nd</sup> Ed	1-10µg/l

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>88 of 144</b>

<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>
2.	<b>Industrial, Irrigation, Construction and Waste Water./Food Process water/ swimming pool/ IS 3328-1993/ IS 11624-1986, IS 456-2000, IS 4251-1967, 1070 :1992</b>	Zinc	IS 3025, (P-49)-1994 RA 2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.1-0.5mg/l 5-100µg/l,
Selenium		IS 3025(P-56)-2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01 – 1 mg/l > 1 mg/l 5-100µg/l	
Mercury		IS 3025(P-48)-94/(a)Mercury Analyzer Method DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.001 – 0.1 mg/l 5-100µg/l	
Cadmium		IS 3025 (P-41)-1992 RA 1998 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.001 – 0.005mg/l > 1.0 mg/l 5-100µg/l	
Arsenic		IS 3025 (P-37)-1988 RA 1999 (a) DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05mg/l 5-100µg/l	
Lead		IS 3025 (P-47) –1998 RA 1999 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05mg/l 5-100µg/l	



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>89 of 144</b>

<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>
		Total Chromium	Ann-J of IS 13428- 2005/ IS 3025(P-52)- 2003 (a) AAS DTH/INS/SOP/18 Issue No. & date 01 & 05.10.2010	0.01-0.05mg/l  5-100µg/l
		Beryllium	APHA 22nd Edition 3500-BE- page no-3-63	5-100µg/l
		Lithium	APHA 22nd Edition 3500 page no-3-82	0.5-3.0 mg/l
		Strontium	APHA 22nd Edition 3500 page 3-101	0.01-0.05 mg/l
		Vanadium	APHA 22nd Edition 3500 page 3-104	0.01-0.05mg/l
<b>3.</b>	<b>Waste Water</b>	Tin	APHA-22nd Ed 3500 Sr page no-3-103	0.01 – 5 mg/l
		Cobalt	APHA 22nd Edition 3500 page 3-71	0.5 -3.0mg/l, LC:3mg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>90 of 144</b>

<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>4.</b>	<b>Pesticide residue in water</b>	<b>Organo – chlorine – compounds</b>		
	<b>IS 14543:2004/</b>	o.p – DDT Or 2,4 –DDT	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
	<b>IS 13428:2005/</b>	P.P. – DDT Or 4,4 –DDT	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
	<b>IS 10500:2012</b>	o.p. – DDE Or 2,4 – DDE	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		p.p. – DDE Or 4,4 –DDE	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		o.p. – DDD Or 2,4 – DDD	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		p.p.– DDD Or 4,4 –DDD	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		γ – HCH	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		α – HCH	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		β – HCH	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		α– Endosulfan	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		β – Endosulfan	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		Endosulfan Sulfate	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		Aldrin	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		Dieldrin	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		Chlorpyrifos	USEPA 8141A	0.01-1.0 µg/l
		Butachlor	USEPA 8141A	0.01-1.0 µg/l
		Alachlor	USEPA 507	0.01-1.0 µg/l
		δ - lindane	AOAC 990.06(19 <sup>th</sup> Edn.)	0.01-1.0 µg/l
		Atrazine	USEPA 8141A	0.01-1.0 µg/l
		<b>Organo – phosphorus Compounds</b>		
		Ethion	USEPA1657A	0.01-1.0 µg/l
		Phorate	USEPA 8141A	0.01-1.0 µg/l
		Phorate Sulfoxide	USEPA 8141A	0.01-1.0 µg/l
		Phorate Sulfone	USEPA 8141A	0.01-1.0 µg/l
		Monocrotophos	USEPA 8141A	0.01-1.0 µg/l
		Methyl Parathion	USEPA 8141A	0.01-1.0 µg/l
		Methyl Paraoxon	USEPA 8141A	0.01-1.0 µg/l
		Malathion	USEPA 8141A	0.01-1.0 µg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>91 of 144</b>

<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>
		Malaoxon	USEPA 8141A	0.01-1.0 µg/l
		<b>Others</b>		
		Isoproturon	USEPA 532	0.01-1.0 µg/l
		2-4 D	USEPA 515.1	0.01-1.0 µg/l
<b>5.</b>	<b>Potable, Domestic, packaged Natural Mineral Water, Packaged Drinking Water/ Water Intended for Human Consumption IS 14543/2004/ IS 13428/2005/ IS 10500/2012</b>	Molybdenum	IS 3025 (P-2)	10-100 µg/l
		Bromoform	APHA 6232	0.5-50 µg/l
		Dibromochloromethane,	APHA 6232	0.5-50 µg/l
		Bromodichloromethane	APHA 6232	0.5-50 µg/l
		Chloroform	APHA 6232	0.5-50 µg/l
		Barium	Annex F of IS 13428 or IS 15302	0.5-4.0 mg/l
		Acrylamide	USEPA Method8316	0.1-1 µg/l
		Benzene	APHA 22 Ed. 6232	1-50 µg/l
		Benzo (a) pyrene	APHA 22 Ed. 6232	0.01-0.1 µg/l
		1, 2-dichloroethane	APHA 22 Ed. 6232	1-50 µg/l
		Epichlorohydrine	APHA 22 Ed. 6232	0.1-2.0 µg/l
		Tetrachloroethane	APHA 22 Ed. 6232	1-50 µg/l
		Trichloroethane	APHA 22 Ed. 6232	1-50 µg/l
		Total organic carbon	APHA 22 Ed. (5310 B)	0.1-1000 mg/l_
		Vinyl Chloride	APHA 22 Ed. 6232	0.5-50 µg/l

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>92 of 144</b>

<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>6.</b>	<b>Potable, Domestic, Packaged Natural Mineral Water, Packaged Drinking Water/ De-mineralized Water IS 1070/ IS 14543-2004/ IS 10500/2012/ IS 13428-2005</b>	Colour	IS 3025 (P-4)-1983 RA 2002	1-500 Hazen
		Odour	IS 3025 (P-5)-1983 RA 2002	NA
		Taste	IS 3025 (P-7 & P-8) -1984 RA 2002	NA
		Turbidity	IS 3025 (P-10)- 1984 RA 2002	1-1000NTU
		Total Dissolved Solids	IS 3025(P-16)-1984 RA 2002	5-10000 mg/l >10000 mg/l
		pH value	IS 3025 (P-11) –1983 RA 2002	1 – 14
		Nitrate	IS 3025 (P-34)-1988 RA –2003	0.1 to 10 mg/l >10 mg/l
		Fluoride	IS 3025 (P-60)-2008 APHA, 4500D 22 <sup>nd</sup> edition page no 4-82	By colour comparison/ 0.02-1.0 mg/l 0-1.4mg/l >1.4 mg/l
		Chloride	Chloride IS 3025 (P-32) –1988 RA 2003	2.5-1000 mg/l >1000 mg/l
		Sulphate	IS 3025 (P-24) –1986 RA 2008	1-40mg/l >40 mg/l
Alkalinity	IS 3025 (P-23)-1991 RA 2003	1.0-600 mg/l >600 mg/l		

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>93 of 144</b>

<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>
		Calcium	IS 3025 (P-40) –1991 RA 2003	0.5-200 mg/l >200 mg/l
		Magnesium	IS 3025 (P-46) –1994 RA 2003	0.5-100 mg/l >100 mg/l
		Residual Free Chlorine	IS 3025 (P-26) –1986 RA 2003	0.1-1mg/l >1 mg/l
		Phenolic Compound	IS 3025 (P-43)-1992 RA 2003	1 µg/l-100 µg/l
		Mineral Oil	IS 3025 (P-39) (FTIR) –1991 RA 2003	0.2-100 mg/l
		Anionic Surface Active Agents (as MBAS)	Ann-K of IS 13428- 2005 / APHA 22 <sup>nd</sup> Edition 5540 C page no 5-50	0.05– 0.2 mg/l >0.2 mg/l
		Cyanide	IS 3025 (P-27) –1986 RA 1998	0.01 – 1.0 mg/l >1.0 mg/l
		Boron (as B)	IS 3025(P-57)-2005 /APHA 22 <sup>nd</sup> Edition 4500B, page no-4-23 3125 B APHA 22 <sup>nd</sup> Edn.	0.02-2 mg/l >2 mg/l 5-100µg/l, >100 µg/l
		Sulphide	IS 3025 (P-29)-1986 RA 2003	0.05-1mg/l >1 mg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>94 of 144</b>

<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>
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21)-2009	1-600mg/l >600 mg/l
		Chromium / Hexavalent Chromium	APHA 3500 -22 <sup>nd</sup> Ed Cr. B./IS 3025(P-52)-2003	0.05-1.0 mg/l >1mg/l
		Acidity	IS 3025 (P-22)1986 RA 2003 APHA2310B/2310B -22 <sup>nd</sup> Ed	1.0-5.0 mg/l >5 mg/l
		Iron (as Fe)	IS 3025(P-53) /IS 15303 3125 B APHA 22 <sup>nd</sup> Edn. 3113 B APHA 22 <sup>nd</sup> Edn.	0.01-0.05 mg/l 5-100µg/l, >100 µg/l
		Mineral Oil	IS 3025 (P-39) –1991 RA 2003 FTIR method	0.2-100 mg/l
		Nitrite	IS 3025 (P-34) –2003 / APHA 22 <sup>nd</sup> Edition 4500B page no-4-118	0.01 to 1 mg/l >1 mg/l
		Conductivity	IS 3025 (P-14)- 1984 RA 2002	1µs-20ms/cm
		Borate (as B)	IS 13428-2005 of Ann-H	0.04-0.2mg/l >0.2 mg/l
		Sodium (as Na)	IS 3025(P-45)-1993, RA 2003	0.05-200mg/l, >200mg/l

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>95 of 144</b>

<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>
7.	<b>Industrial, Irrigation, Construction and Waste Water./Food Process water/swimming pool/ IS 3328-1993/IS 11624-1986, IS 456-2000, IS 4251-1967</b>	Odour	IS 3025 (P-5)-1983 RA 2002	NA
Colour		IS 3025 (P-4) – 1983, RA -2002	1-500Hazen	
Turbidity		IS 3025 (P-10)- 1984 RA 2002	1-1000NTU	
Total Dissolved Solids		IS 3025(P-16)-1984 RA 1996	5-10000 mg/l >10000 mg.l	
pH value		IS 3025 (P-11) –1983 RA 2002	1 – 14	
Zinc		IS 3025, (P-49)-1994 RA 2003 3125 B APHA 22 <sup>nd</sup> Edn. 3113 B APHA 22 <sup>nd</sup> Edn.	0.1-0.5mg/l 1-100µg/l, >100 µg/l	
Chloride		Chloride IS 3025 (P-32) –1988 RA 2003	2.5-1000 mg/l >1000 mg/l	
Sulphate		IS 3025 (P-24) –1986 RA 2008	1-40mg/l >40 mg/l	
Alkalinity		IS 3025 (P-23)-1991 RA 1998	1.0-600 mg/l >600 mg/l	
Phenolic Compound		IS 3025 (P-43)-1992 re0aff-2003	1-100 µg/l	
Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21)-2009	5-10000 mg/l >10000 mg/l		

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>96 of 144</b>

<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>
		Total Suspended Solids (TSS)	IS 3025 (P-17) 1984 RA 2002	5.0-100 mg/l >100 mg/l
		Acidity / Alkalinity	IS 3025(P-22,23)-2003	1-5 ml/ 1-25 ml >5 ml/>25ml
		Volatile Solids/Organic solids	APHA 2450E -22 <sup>nd</sup> Ed, IS 3025 (P-18)-1984, RA 2002	5.0-200 mg/l > 200 mg/l
		Fixed Residue/Inorganic solids	APHA2540G-22 <sup>nd</sup> Ed, IS 3025 (P-18)-1984, RA 2002	5.0-3000 mg/l >3000 mg/l
		Iron (as Fe)	IS 3025(P-53) /IS 15303 3125 B APHA 22 <sup>nd</sup> Edn. 3113 B APHA 22 <sup>nd</sup> Edn.	0.01-0.05mg/l 0.5-100µg/l, >100 µg/l
		Potassium	IS 3025(P-45)-2003	0.05-100mg/l, > 100mg/l
		Temperature°C	IS 3025 (P-9)-1984 RA 2002	Ambient -100°C
		Sulphite	IS 3025 (P-28)-1986 RA 2003	2.0-50 mg/l >50 mg/l
		Carbon dioxide	APHA 22 <sup>nd</sup> Edition 4500C page 4-23	1.0-50 mg/l >50 mg/l
		Carbonate (As CaCO <sub>3</sub> )	IS 3025(P-51)-2001 / APHA 22 <sup>nd</sup> Edition 2320B page 2-27	NA



<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>97 of 144</b>

<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>
		Bicarbonate (as CaCO <sub>3</sub> )	IS 3025(P-51)-2001 / APHA 22 <sup>nd</sup> Edition 2320B page 2-27	NA
		Hydroxy/Caustic Alkalinity (as CaCO <sub>3</sub> )	IS 3025(P-51)-2001 / APHA 22 <sup>nd</sup> Edition 2320B page 2-27	NA
		Carbon/Nitrogen ratio	DTH/SOP/Chem,/Water-02	NA
<b>8.</b>	<b>Waste Water</b>	Total Solids	IS 3025 (P-15)-1984 RA 1998	5-3000 mg/l >3000 mg/l
		Total Suspended Solids (TSS)	IS 3025 (P-17) 1984 RA 2002	5-100 mg/l >100 mg/l
		Ammonical Nitrogen (NH <sub>3</sub> -N)	IS 3025 (P-34) –1988 RA 2003 Titrimetic method	0.2-1 mg/l >1 mg/l
		Total Kjeldahl Nitrogen	4500 B APHA 22 <sup>nd</sup> Edn.	1.0-100 mg/l >100 mg/l
		Dissolved Oxygen	IS 3025 (P-38) -1989 RA 2003	0.1-10 mg/l
		Chemical Oxygen Demand (COD)	APHA-22 <sup>nd</sup> Ed – Open reflux method 5220B page no-5-14 (IS 3025 (P-58)-2006	4-250 mg/l >250 mg/l
		Biochemical Oxygen Demand (BOD)	IS 3025 (P-44)-1993 RA 2003/APHA 5210B 22 <sup>nd</sup> edition page no-5-2	3-30 mg/l >30 mg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>98 of 144</b>

<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>
		Silica (as SiO <sub>2</sub> )	IS 3025 (P-35) –1988 RA 2003	4-20 mg/l >20 mg/l
		Phosphorous	IS 3025 (P-31) –1988 RA 2003	0.1-0.5mg/l >0.5 mg/l
		Salinity	APHA-22 <sup>nd</sup> Ed 2520 B, page no-2-48	5-10000 mg/l >10000 mg/l
		Chlorine demand	IS 3025(P-25)-1986 RA 1998/ APHA 2350B page no-2-41	0.2-1.0mg/l
		Oil & Grease	IS 3025(P-39)-1984 RA 2003	0.4-10 mg/l >10 mg/l
		Amonia (as NH <sub>3</sub> -N) mg/l	APHA 22 <sup>nd</sup> Edition 4500 C page 4-110	0.2-1 mg/l >1 mg/l
		Sodium absorption ratio(SAR)	IS 11624-1986	NA
		Bromide	APHA 22 <sup>nd</sup> Edition 4500B page 4-26	0.1-1mg/l

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>99 of 144</b>

<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>9.</b>	<b>Potable, Domestic, packaged Natural Mineral Water, Packaged Drinking Water/Water Intended for Human Consumption IS 14543/2004/ IS 13428/2005/ IS 10500/2012</b>	Chloramines	IS 3025 (P-26)-1986, RA 2003/ APHA 4500-Cl G	0.1-1.0 mg/l >1.0 mg/l
		Ammonia/Ammonium	IS 3025 (P-34)-1988, RA 2003	0.5-5 mg/l >5.0 mg/l
		Bromate	SOP No. DTH/Water/01	5.0-60 µg/l
		Oxidisability	IS 1070-1992 (Annex A)	NA
<b>10.</b>	<b>Industrial, Irrigation, Construction and Waste Water/Food Process water/swimming pool water Demineralized water IS 3328-1993/ IS 11624-1986 IS 4251-1967, IS 1070 1992.</b>	Conductivity	IS 3025 (P-14) 1984 RA 2002	1µs-20 ms/cm
		Taste	IS 3025 (P-7&8) 1984 RA 2002	NA
		Acidity	IS 3025 (P-22)-1986, RA 2003	1-5 ml >5 ml
		Cyanide	IS 3025 (P-27) 1986, RA 1998	0.01-1.0 mg/l > 1.0 mg/l
		Magnesium	IS 3025 (P-46) 1994 RA 2003	0.5-100 mg/l > 100 mg/l
		Colour Retention Time	IS 1070-1992 Annex A	NA
		Oxygen absorbed in 4 Hrs at 27°C	IS 3025 (P63) 2007	0.4 to 1 mg/l > 1 mg/l
Residual sodium carbonate or bicarbonate	IS 11624-1986	NA		

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>100 of 144</b>

<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>
		Fluoride	APHA 22nd ED. 4500 C& D	By colour comparison/ 0.02-1.0 mg/l 0-1.4mg/l >1.4 mg/l
		Nitrate	IS 3025(p-34) 1988 RA 2003	0.1-10 mg/l > 10 mg/l
		Chromium (Cr+6)	APHA 3500 22 ED. Cr-B, IS 3025 (p-52) 2003	0.05-1.0 mg/l > 1mg/l
		Residual free chlorine	IS 3025 (P-26) 1986 RA 2003	0.1-1.0 mg/l > 1 mg/l
		Boron	IS 3025 (P-57) -2005 APHA 22nd ED. 4500 B	0.02-2 mg/l >2 mg/l

### **III. ENVIRONMENTAL MONITORING**

<b>I. Air Ambient Air Quality Monitoring</b>	NO <sub>2</sub>	Emission regulation –III Jacob & Hocheiser modified sodium Arsenite method. IS : 5182 (P-VI)-1975, RA 1998	20-250 µg/m <sup>3</sup> 20 - 740µg/m <sup>3</sup>
	SPM	APHA-AIR-3 <sup>rd</sup> edition (AIR)/ IS 5182 (P-4)-1999, RA 2005	10-2000µg/m <sup>3</sup>
	SO <sub>2</sub>	APHA –AIR 3 <sup>rd</sup> edition)/ IS 5182 (P-2)-2001	26-250µg/m <sup>3</sup> 25-1050 µg/m <sup>3</sup>

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>101 of 144</b>

<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>
		RSPM	IS 5182(P-23)2006	5-1000 $\mu\text{g}/\text{m}^3$
		CO	IS 5182 (P-10)-1999,RA 2003	200-5000 $\mu\text{g}/\text{m}^3$
		CO <sub>2</sub>	Methaniser ASTM D-3612-01	10-1000ppm
		NH <sub>3</sub>	APHA(AIR) -3rd edition indophenol method	1-700 $\mu\text{g}/\text{m}^3$
		Acid mist or SO <sub>3</sub> (Sulphuric acid aerosol)	APHA(AIR)- 3 <sup>rd</sup> edition Titrimetric method	0.1-200mg /m <sup>3</sup>
		Particulate matter, less than 2.5 Micron ( $\mu\text{g}/\text{m}^3$ )	IS 5182(P-23)2006 CPCB guideline Gravimetric method	20-100 $\mu\text{g}/\text{m}^3$
		Particulate matter, less than 10 Micron ( $\mu\text{g}/\text{m}^3$ )	IS 5182(P-23) 2006 CPCB guideline Gravimetric method	5-1000 $\mu\text{g}/\text{m}^3$
		Wind direction in degrees	CPCB, MOEF Guideline	0-360°
		Wind Speed in km/hr	CPCB, MOEF Guideline	0-50 km/hour
		Temperature °C	CPCB, MOEF Guideline	0-60°C
		Relative , Humidity%	CPCB, MOEF Guideline	10-95
		Rainfall mm	CPCB, MOEF Guideline	0-50mm
		Cloud Cover OCTAS	CPCB, MOEF Guideline	0-8 OCTAS
		Ozone	APHA-AIR 3 <sup>rd</sup> edition ,CPCB Guideline,	0.02-10 $\mu\text{g}/\text{m}^3$

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>102 of 144</b>

<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>
		Heavy Metals (As, Pb, Ni)	APHA AIR -3 <sup>rd</sup> Edition,,NAAQS GUIDELINES-May 2011 AAS METHOD IS 5182P-22)- 2004	0.010-10.0 µg/m <sup>3</sup> 4.0-20.0 ng/m <sup>3</sup> 0.2-6.0 ng/m <sup>3</sup>
		Benzene	IS 5182(P-11)2006, APHA AIR -3 <sup>rd</sup> , edition NAAQS GUIDELINES- May 2011	(2.0-50.0) µg/m <sup>3</sup> >50 µg/m <sup>3</sup>
		Benzo (a) Pyrene,	CPCB guideline NAAQS GUIDELINE-May 2011 IS 5182(P-12)2004	0.5-5.0 ng/Nm <sup>3</sup> >5.0 ng/Nm <sup>3</sup>
<b>2.</b>	<b>Stack Gas Emission/ Fugitive</b>	PM	IS 11255(P-1)-1985 RA 1998Emission regulation (P-III)	10-1000mg/Nm <sup>3</sup>
		SO <sub>2</sub>	APHA(AIR)- 3 <sup>rd</sup> edition / IS : 11255 (P-2)1985 RA 98	26-15600mg/ m <sup>3</sup>
		NO <sub>2</sub>	USEPA-method-7/ APHA(Air)- 3 <sup>rd</sup> edition	2-400 mg/m <sup>3</sup>
		CO	IS 13270-1992 RA 1999 by Orsat App.	0.2-20%
		CO <sub>2</sub>	IS 13270-1999 RA -1999 by OrsatApp.	0.2-20%
		NH <sub>3</sub>	IS 11255-1999(P-6)-1999	5-100mg/Nm <sup>3</sup>

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>103 of 144</b>

<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>
		Acid Mist (as SO <sub>3</sub> )	USEPA method -8	0.1-200 mg/m <sup>3</sup>
		Flue Velocity	Emission regulation P-III	0-30m/s
<b>3.</b>	<b>Solid waste</b>	Weight in (MTs)	SOP/NO.DTH/ENV/06	0.01-10MTs
		Density k.g/m <sup>3</sup>	SOP/NO.DTH/ENV/07	60-450k.g /m <sup>3</sup>
		Physical segregation	SOP NO.DTH/ENV/05	NA
		Moisture(% by mass)	IS 9235-1979	1-75%
		Ash (%by mass)	IS 1350	5-80%
		GCV (% by mass)	IS 1350 (P-2)	1000-6000cals/g
<b>4.</b>	<b>Water purifier</b>	Absorption of activated Carbon test	Cl. 6.2.2.4 of IS 14724-1999 IS 3025(P-26)-1986 RA -1988	0.1– 1.0mg/l >1.0 mg/l
		Turbidity test	Cl. 6.2.2.1 of IS 14724-1999, IS 3025(P-10)-1984 RA 2002	1-1000 NTU
		Suspended Particle test	Cl. 6.2.2.2 of IS 14724-1999	Visual examination
<b>5.</b>	<b>Soil</b>	pH	IS 2720(P-26)-1987 RA 2005 amd. 1	1-14
		CaCO <sub>3</sub>	IS 2720 (P-23)-1976 RA 2005 amd. 1	0-50%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>104 of 144</b>

<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>Soil</b>	Organic Matter	IS 2720 (P-22)-1972 RA 2005 amd. 1	0-20%
		Total soluble solid	IS 2720(P-21) -1977 RA 2005 amd. 1	0-30%
		SiO <sub>2</sub>	IS 2720 (P-25)-1982 RA 2005 amd. 1	0-80%
		Total Soluble Sulphate	IS 2720 (P-27)-1982 RA 2005 amd. 1	0-5%
<b>IV. FERTILIZERS</b>				
<b>1.</b>	<b>Zinc Sulphate</b>	Matter insoluble in Water	FCO-1985 SC-II(B-7)/II	0.1-10%
		Zinc (as Zn), %	FCO-1985 SC-II(B-8)/II	1-40%
		pH	FCO-1985 SC-II(B-7)/VII	1-10
		Lead (as Pb), %	FCO-1985 SC-II(B-7)/V	0.0012-1.0
		Copper (as Cu), %	FCO-1985 SC-II(B-7)/IV	0.0012-1.0
		Magnesium (as Mg), %	FCO-1985 SC-II(B-7)/VI	0.0005-1.0
		Cadmium (as Cd), %	FCO-1985 SC-II(B-7)/X	0.0005-1.0
		Arsenic (as As), %	FCO-1985 SC-II(B-7)/IX	0.0005-1.0
<b>2.</b>	<b>Potash Fertilizer</b>	Moisture	FCO-1985 SC-II(B-2)/II	0.05 – 50 %
		Potash Content	IS 6092 (P-4)-1985, Raff 2007 & Flame photometer	0.1 – 70 %
		Water soluble Potash	IS 6092 (P-4)-1985, Raff 2007 & Flame photometer	0.01 – 70 %



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>105 of 144</b>

<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>
3.	<b>Nitrogenous Fertilizer</b>	Nitrate	FCO-1985 SC-II(B-3)	0.05 – 50 %
		Total Nitrogen	FCO-1985 SC-II(B-3)	0.05 – 50 %
		Ammonical Nitrogen	FCO-1985 SC-II(B-3)	0.05 – 50 %
4.	<b>Phosphatic fertilizer</b>	Total Phosphate	FCO-1985 SC-II(B-4)/II	0.05 – 50 %
		Water Soluble Phosphate	FCO-1985 SC-II(B-4)/III	0.05 – 50 %

## **V. PESTICIDES**

### **A. PESTICIDES & ITS FORMULATIONS**

1.	<b>Acephate (Technical) IS 12915</b> <b>Acephate (S.P.) IS 12916</b>	Acephate content	IS 12915-1990 RA 2007 amd 4 (GC)	1-99%
		Melting Point	IS 6940-1982 RA 2007 amd.2	40-150°C
		Material Insoluble in water	-do-	0.05 – 5 %
		Acidity	-do-	0.02-5%
2.	<b>Aluminum phosphide IS 6438-1980</b>	Active ingredient	IS 6438-1980 RA 2004 amd - 3(Cheical)	1-90%
		Disintegration	IS 6438-1980 RA 2004 Amd-3	NA
		Weighing	IS 6438-1980 RA 2004 Amd-3	1-5 gm

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>106 of 144</b>

<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>
3.	<b>Atrazine (Technical)</b> <b>IS 12932</b>	Active ingredient	IS 12932-1990 RA 2007 (HPLC)	0-99%
		<b>Atrazine (WP)</b> <b>IS 12931</b>	Ionic Chloride	IS 12932-1990 RA 2007
		Moisture	IS 6940-1982 RA 2007 amd-02	0.1-5%
		Melting Point	IS 6940-1982 RA 2007 amd-02	175-177 <sup>0</sup> c
		Sieving	IS 6940-1982 RA 2007 amd-02	0-99%
		Suspensibility	IS 6940-1982 RA 2007 amd-02	10-95%
		Acidity/Alkalinity	IS 6940-1982 RA 2007 amd-02	0.05-4%
	Wettability	IS 6940-1982 RA 2007 amd-02	5-120sec.	
4.	<b>Anilophos (Technical)</b> <b>IS 13402</b>	Active ingredient	IS 13402-1992 RA 2007 (GC)	1-99%
		<b>Anilofos (EC)</b> <b>IS 13403</b>	Moisture	IS 6940-1982 RA 2007 amd-02
		Material insoluble in acetone	IS 6940-1982 RA 2007 amd-02	0.05-10%
		Acidity	IS 6940-1982 RA 2007 amd-02	0.02-4%
		Cold test	IS 6940-1982 RA 2007 amd-02	NA
		Flash Point	IS 1448 (P-20)-1998	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd.2	NA
5.	<b>Butachlor (EC)</b> <b>IS 9356</b>	Active ingredient	IS 9355-1980 RA 2007 amd - 3(GC)	2-99%
		Cold test	IS 6940-1982 RA 2007 amd-02	NA
		Flash Point	IS 1448 (P-20)-1998	10-80°C
		Emulsion stability	IS 6940-1982 RA 2007 amd.2	NA
		Acidity/Alkalinity	IS 6940-1982 RA 2007 amd.2	0.02-4%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>107 of 144</b>

<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>
6.	<b>Bromadiolone (Technical) IS 12914-1990</b>	Active ingredient	IS 12914-1990 RA 2007 amd-2 (HPLC)	0.1 – 100%
		Melting Point. °C	IS 6940-1982 RA 2007 amd-02	10-250°C
		Moisture, % m/m	IS 6940-1982 RA 2007 amd-02	0.05-5%
7.	<b>Cyper-methrin (Technical) IS 12015-1987 Cyper-methrin (EC) IS 12016</b>	Active ingredient	IS 12015-1987 RA 2007 amd-3 (GC)	1-99%
		Acidity	IS 6940-1982 RA 2007 amd. 02	0.02-4%
		Moisture	IS 6940-1982 RA 2007 amd. 02	0.05-4%
		Cis-Trans ratio	IS 12015-1987 RA 2007 amd. 3	10-90%
		Cold test		NA
		Emulsion stability		NA
		Flash Point	IS 1448 (P-20)-1998	10-60°C
8.	<b>Chlorpyrifos (EC) IS 8944 -2005 Chlorpyrifos (Technical) IS 8963 -2006</b>	Active ingredient	IS 8963-2006 (GC)	4-98%
		Cold test	IS 6940-1982 RA 2007 amd-2	NA
		Flash Point	IS 1448 (P-20)-1998	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA
		Acidity	-do-	0.02-10%
		Water content	IS 6940-1982 RA 2007 amd-02	0.1-10%
		Melting point	-do-	10-60°C
		Material insoluble in Acetone	-do-	0.05-10%
9.	<b>Carbaryl (Granules) WDP IS 9368-1973 Carbaryl (D.P) IS 7122</b>	Active ingredient	IS 7121-1973 RA 2002 (Chemical)	1-99%
		Sieving 75micron	IS 6940-1982 RA 2002 amd-02	1-99.5%
		Suspensibility		10-90%
		Foam test	IS 7121-1973 RA 2002	NA
	Acidity	IS 6940-1982 RA 2007 amd-02	0.1-1%	

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>108 of 144</b>

<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>Carbaryl (Granules) WDP IS 9368-1973 Carbaryl (D.P) IS 7122</b>	Sieving	IS 6940-1982 RA 2007 amd-02	0.1-99%
		Dust	-do-	1-5%
		Moisture	-do-	1-5%
		Active ingredient	IS 7539-1975 RA 2002 amd-4 (Chemical)	2-10%
		Acidity/Alkalinity	-do-	0.02-10%
		Bulk density	-do-	1-70gm/ml
<b>10.</b>	<b>Copper Oxychloride (W.D.P.) IS 1507 Copper oxychloride (D.P.) IS 1506 -1977</b>	i)Active ingredient	IS 1506-1977 RA 2007 (Chemical)	2-60%
		ii)Suspensibility	IS 6940-1982 RA 2007 amd-02	10-98%
		iii)Ph	IS-1507-1977, RA 2007	2-14
		Sieving 75 micron	IS 6940-1982 RA 2007 amd-02	10-99%
		Alkalinity/Acidity	-do-	0.05-10%
		Bulk density	-do-	1-70gm/ml
<b>11.</b>	<b>Carbendazim (W.P.) IS 8446-1991 Carbendazim (Technical) IS 8445-1991</b>	Active ingredient	IS 8446-1991 RA 2007 amd-2 (HPLC)	0.1-99%
		Sieving 75 micron	IS 6940-1982 RA 2007 amd-02	1-100%
		Suspensibility	IS 8446-1991 RA 2007 amd-2	10-90%
		Alkalinity Acidity,% mm	IS 6940-1982 RA 2007 amd-02	0.01-10%
		Description	IS 8445-1991 RA 2007 amd. 1	NA
		Carbendazim Content, % m/m	IS 8445-1991 RA 2007 amd. 1 (HPLC)	0.1 – 100%
		Moisture, % m/m	IS 6940-1982 RA 2007 amd-02	0.05-5%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>109 of 144</b>

<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>12.</b>	<b>Dicofol (EC) IS 5279</b>	Active ingredient	IS 5278-1969 RA 2007 amd. 3(Cheical)	1-99%
		Acidity/Alkalinity	IS 6940-1982 RA 2007 amd-02	0.05-10%
	<b>Dicofol (Technical) IS 5278</b>	Cold test	-do-	NA
		Flash Point	IS 1448(P-20)1998	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd-02	NA
		Moisture	IS 6940-1982 RA 2007 amd-02	0.02-10%
<b>13.</b>	<b>Deltamethrin (WP) IS 13457-1992</b>	Description	IS 13457-1992 RA 2002 amd-2	NA
		Deltamethrin Content, % m/m	IS 12005-1987 RA 2007 amd-2(HPLC)	0.1-10%
		Material passing through-45 micronIS Sieve, % m/m	IS 6940-1982 RA 2007 amd-02	0.5-100%
		Suspensibility, % m/m	IS 13457-1992 RA 2002 amd-2	10-100%
		Acidity (as H <sub>2</sub> SO <sub>4</sub> ), % mm or Alkalinity (as NaOH), % mm	IS 6940-1982 RA 2007 amd-02	0.01-10%
		Wettability, seconds	IS 6940-1982 RA 2007 amd-02	1-300 sec
<b>14.</b>	<b>Dodine (Technical) IS 13784 – 1993 Dodine (W.P.) IS 13785-1993</b>	Description	Visual	NA
		Dodine Content	IS 13784-93 RA 2007 (Chemical)	2-98%
		Water content	IS 6940-1982 RA 2007 amd-02	0.05 -5 %
		Alkalinity as NaOH or Acidity as H <sub>2</sub> SO <sub>4</sub>	IS 6940-1982 RA 2007 amd-02	0.05-5%
		Sieving % by mass 75 micro	IS 6940-1982 RA 2007 amd-02	10-100%
		Wettability, in second	IS 6940-1982 RA 2007 amd-02	5-180 sec
		Suspensibility	IS 6940-1982 RA 2007 amd-02	10-90%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>110 of 144</b>

<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>15.</b>	<b>Endosulfan (EC)IS 4323 Endosulfan (Technical) IS 4344</b>	Active ingredient	IS 4344-1978 RA 2007 amd-1 (Chemical)	1-99%
		Acidity/Alkalinity	IS 6940-1982 RA 2007 amd-02	0.01-4%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA
		Moisture	IS 6940-1982 RA 2007 amd-02	0.5-90%
		Material insoluble in Acetone		0.1-20%
<b>16.</b>	<b>Ethion (Technical) IS 10369-1982</b>	Description	IS 10369-1982 RA 2004	NA
		Ethion content,	IS 10369-1982 RA 2004 (Chemical)	1-99.9%
		Moisture content, % m/m	IS 6940-1982 RA 2007 amd-02	0.05-5%
		Acidity (as H <sub>2</sub> SO <sub>4</sub> ),% m/m	IS 6940-1982 RA 2007 amd-02	0.05-5%
<b>17.</b>	<b>2,4-D Ethyl Ester (Technical) IS 7233 2,4-D-Ethyl Ester (EC) IS 10243</b>	2,4D content	IS 7233-1991 RA 2004 (Chemical)	1-99%
		Free 2,4-D content	IS 7233-1991 RA 2004 (Chemical)	1-8%
		2,4-D Ethyl ester	IS 7233-1991 RA 2004	1-99%
		Melting point	-do-	136-140°C
		Water	-do-	NA
		Suspended solids	-do-	0.2-10%
		Active ingredient	IS 10243-1993 RA 2007	3-98%
		Free 2-4-D (free Acidity)	IS 7233-1991 RA 2004	0.05-10%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA
		Identity	IS 7233-1991 RA 1997	NA

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>111 of 144</b>

<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>18.</b>	<b>Fenvalerate (Technical) IS 12003 Fenvalerate (EC) IS 11997</b>	Active ingredient	IS 12003-1987 RA 2007 amd-4 (GC)	1-99%		
		Acidity/Alkalinity	IS 6940-1982 RA 2007 amd-02	0.02-4%		
		Material insoluble in acetone	-do-	0.1-10%		
		Cold test	-do-	NA		
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C		
		Emulsion stability	IS 6940-1982 RA 2007 amd-02	NA		
<b>19.</b>	<b>Fenitrothion (W.D.P.) IS 10295 Fenitrothion (EC) IS 5281 Fenitrothion (Technical) IS 5280</b>	Active ingredient	IS 5281-1979 RA 2007 amd 1(Cheical)	2-98%		
		Sieving 75 micron	IS 6940-1982 RA 2007 amd-02	10-99.5%		
		Suspensibility	-do-	10-90%		
		Acidity/Alkalinity	-do-	0.02-10%		
		Wettability	-do-	5-300 sec		
		Cold test	-do-	NA		
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C		
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA		
		Active ingredient	IS 5280-1969 RA 2007 amd-1	2-98%		
				Moisture	IS 6940-1982 RA 2007 amd. 2	0.05-10%
		Material Insoluble in Acetone		0.05-10%		
		Specific gravity		1-1.4gm/ml		
<b>20.</b>	<b>Fenthion (EC) IS 7948-1987</b>	Description	IS 7948-1987	NA		
		Cold test 10°C	IS 6940-1982 RA 2007 amd-02	NA		
		Flash Point(Abel) °C	IS 1448(P-20)1998, RA 2007	10-80°C		
		Emulsion salability	IS 6940-1982 RA 2007 amd-02	NA		
		Fenthion content, % m/m	IS 7950-1989 RA 2007 (Chemical)	1-90%		
				Acidity(H <sub>2</sub> SO <sub>4</sub> / Alkalinity (NaOH), % m/m	IS 6940-1982 RA 2007 amd-02	0.005-5%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>112 of 144</b>

<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>21.</b>	<b>GammaBHC (Lindane) (EC) IS 632</b>	Active ingredient	IS 882-1984 RA 2004 (GC)	1-99.5%
		Acidity	IS 6940-1982 RA 2007 amd-02	0.05-4%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion	IS 6940-1982 RA 2007 amd. 02	NA
		Stability		
<b>22.</b>	<b>Isoproturon (WP) IS 11995-1987 Isoproturon (Technical) IS 12004-1987</b>	Description	IS 11995-1987 RA 2007 amd. 3	NA
		Isoproturan content, %m/m	IS 12004-1982 RA 2007 amd. 2 (HPLC)	0.1-99.9%
		Sieving requirement, 75 micron%	IS 6940-1982 RA 2007 amd-02	0.5-100%
		Suspensibility, %m/m	IS 6940-1982 RA 2007 amd-02	10-100%
		Wettability, Sec	IS 6940-1982 RA 2007 amd-02	1-300 sec
		Acidity(H <sub>2</sub> SO <sub>4</sub> / Alkalinity (NaOH), % m/m	IS 6940-1982 RA 2007 amd-02	0.05-5%
		Water content, %m/m	IS 6940-1982 RA 2007 amd. 2	0.05-5%
		Melting point °C	IS 6940-1982 RA 2007	10-250°C
<b>23.</b>	<b>Lindane IS 882-1984 Lindane (Gr.) IS 9370 Lindane (DP) IS 14834-2000</b>	Active ingredient	IS 882-1984 RA 2004 amd. 1(GC)	0.5-99.5%
		Moisture	IS 6940-1982 RA 2007 amd-02	0.05-10%
		Material insoluble in acetone	-do-	0.1-10%
		Acidity	IS 882-1984 RA 2004	0.02-4%
		Setting point	IS 6940-1982 RA 2007 amd-02	NA
		Sieving	IS 6940-1982 RA 2007 amd-02	0.1-99%
		Dust	-do-	0.2-10%
		Description	IS 14834-2000 amd-1	NA
		Lindane content ,%m/m	IS 14834-2000 amd-1 (GC)	0.1-5%



<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>113 of 144</b>

<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>
		Material Passing 75 micron IS Sieve, %m/m	IS 6940-1982 RA 2007 amd-02	0.5-100%
		Bulk Density after Compacting	IS 6940-1982 RA 2007 amd-02	1-70gm/ml
		Acidity (as HCl),% m/m or Alkalinity (as NaCl),% m/m	IS 14834-2000 amd. 1	0.05-5%
		Related Isomers	-do-	0.05-5%
			IS 14834-2000 amd-1	NA
<b>24.</b>	<b>Malathion (W.D.P.) IS 2569</b>	Active ingredient	IS 1832-1978 RA 2007 amd-2 (UV Spectrophotometer )	1-99.5%
	<b>Malathion (E.C) IS 2567</b>	Sieving 75 micron	IS 6940-1982 RA 2007 amd-02	1-99%
	<b>Malathion (D.P.) IS 2568</b>	Suspensibility	-do-	10-90%
	<b>Malathion (Technical) IS 1832</b>	Acidity/Alkalinity	IS 6940-1982 RA 2007 amd-02	0.02-4%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA
		Bulk density	-do-	1-70gm/ml
		Moisture	IS 6940-1982 RA 2002 amd-02	0.05-10%
		Material insoluble in acetone	-do-	0.1-10%
		Specific gravity	-do-	1-1.5 gm/ml
<b>25.</b>	<b>Methyl Parathion (EC) IS 2865</b>	Active ingredient	IS 2865-1978 RA 2007 amd-6 (UV Spectrophotometer )	1-99.5%
		Acidity/Alkalinity	IS 6940-1982 RA 1997	0.02-4%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>114 of 144</b>

<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>
26.	<b>Methyl Parathion (Technical) IS 2570</b> <b>Methyl Parathion (D.P.)IS 8960</b>	Active ingredient	IS 2570-1980 RA –2007 amd-2 (UV Spectrophotometer )	1-99.5%
		Moisture	IS 6940-1982 RA 2007 amd-02	0.05-10%
		Material insoluble in acetone	-do-	0.1-10%
		Relative density	-do-	1-1.5gm/ml
		Sieving 75 micron	IS 6940-1982 RA 2007 amd-02	10-99%
		Acidity/Alkalinity	-do-	0.02-4%
		Bulk density	-do	1-70gm/ml
27.	<b>Mono-Crotophos (S.L.) IS 8074</b> <b>Monocrotophos (Technical) IS 8025</b>	Active ingredient	IS 8025 –1990 RA 2007 (UV Spectrophotometer )/ CIPAC Volume E-287	1-90%
		Free MMA	IS 8025-1990 RA –2007	0.5-5%
		Acidity	IS 6940-1982 RA 2007 amd-02	0.02-4%
		Cold test	-do-	NA
		Flash point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Free MMA	IS 8025 –1990 RA 2007	0.2-8%
28.	<b>Phosalone (Technical) IS 8488</b> <b>Phosalone (E.C.) IS 8487</b> <b>Phosalone (D.P.) IS 8489</b>	Active ingredient	IS 8488-1977 reaff–2007 amd-4(UV Spectrophotometer )	2-99%
		Melting Point	IS 6940-1982 RA 2007 amd-02	35-50°C
		Moisture	IS 8488-1977 RA 2007 amd 4	0.05-10%
		Acidity/Alkalinity	IS 6940-1982 RA 2007 amd-02	0.02-4%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA
		Sieving	IS 6940-1982 RA 2007 amd-02	2-99%
Bulk density	-do-	1-70 gm/ml		

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>115 of 144</b>

<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>
29.	<b>Phosphamidon (Technical) IS 4958</b>	Active ingredient	IS 4958-2005 (HPLC)	2-99.5%
		Acidity	-do-	0.05-10%
		Moisture	IS 2362-1993 RA 1998	0.05-10%
30.	<b>Pretilachlor (Emulsifiable) IS 15160-02</b> <b>Pretilachlor (Technical) IS 15158-02</b>	Description	NA	NA
		Cold test	IS 6940-1982 RA 2007 amd-02	NA
		Flash Point (abel)	IS : 1448 (P-20)-98, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd-02	NA
		Pretilachlor content	IS : 15158-2002 (GC)	2-98%
		Acidity as H <sub>2</sub> SO <sub>4</sub>	IS 6940-1982 RA 2007 amd-02	0.05-5%
		Moisture content	IS 6940-1982 RA 2007 amd-02	0.05-5%
Material insoluble in acetone,%	IS 6940-1982 RA 2007 amd-02	0.05to 10%		
31.	<b>Quinalphos (Technical) IS 8072</b> <b>Quinalphos (EC) IS 8028</b>	Active ingredient	IS 8072-1984 RA -2007 amd. 3 (GC)	2-90%
		Relative density	-do-	0.8-1.2 gm/ml
		Material insoluble in acetone	-do-	0.01-5%
		Acidity/Alkalinity	-do-	0.02-4%
		Cold test	-do-	NA
		Flash Point	IS 1448 (P-20)-1998, RA 2007	10-60°C
		Emulsion stability	IS 6940-1982 RA 2007 amd. 02	NA
32.	<b>2,4-D (Sodium Salt) IS 1488</b>	Acid content (2,4-D)	IS 1488-1989 RA -2004, Amd. 1 (Chemical)	2-99%
		Water insoluble matter	-do-	0.1-10%
		Free Phenol	IS 4321-1989 RA 2004	0.02-4%
		Melting Point	IS 1488-1989, RA 2007	130-150°C
		Loss on drying	IS 4321-1989 RA 2004	1-10%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>116 of 144</b>

<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>
33.	<b>Sulphur (W. P.) IS 3383</b>	Active ingredient	IS 3383-1982 reaf-2004 amd-2 (Chemical)	5-100%
		Sieving 45micron	IS 6940-1982 reaf-2007	1-100%
		Wettability	-do-	5-300 sec
		Suspensibility	-do-	10-90%
34.	<b>Imidacloprid (Technical) IS 15443-04 Imidacloprid (SL 17.8%) IS 15335-2003</b>	Active Ingredient	IS 15443-2004 (HPLC)	0.1-100
		Moisture	IS 6940-1982 RA 2007 amd-02	0-1-2%
		Cold test	IS 6940-1982 RA 2007 amd-02	NA
		Flash Point	IS 1448(P-20)-1998, RA 2007	10-60°C
		Acidity /Alkalinity	IS 6940-1982 RA 2007 amd-02	0.00-1.00
35.	<b>Cartap Hydrochlorid (Technical) IS 14159-82 Cartap hydrochlorid (Granuals) IS 14184-94 Cartap Hydrochlorid (SP) IS 14183-94</b>	Active Ingredient	IS 14159-1994 RA 2003 (Chemical)	1.0-98.0
		Moisture	IS 6940-1982 RA 2002 amd-02	0.00-4.0
		pH , Aqueous extract	IS 14159 RA 2003	2-5
		Particle size upper & lower dust	IS 6940-1982 RA 2007 amd-02	5.0-97.0
		Dust	IS 6940-1982 RA 2007 amd-02	0.00-1.0
		Material insoluble in water % by mass (m/m)	IS 6940-1982 RA 2007 amd-02	0.01-3.0
				IS 6940-1982 RA 2007 amd-02

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>117 of 144</b>

<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>
36.	<b>Bromadiolone (RB-0.005)</b> <b>IS 12912-1990</b>	Active ingredient	IS 12914-1990 RA 2007 amd-2 (HPLC)	0.001-0.25
	<b>Bromadiolone (CB-0.25)</b> <b>IS 12913-1990</b>	Sieving	IS 6940-1982 RA 2007 amd-02	10-95

## **VI. PETROLEUM PRODUCTS**

<b>1. Lubricant Oil &amp; Grease Insulating Oil, Hydraulic Oil</b>	Ash Content	IS:1448 (P-4)-2008	0-100%
	Copper	IS:1448 (P-78)1973 reaff-2007 amd. 1	1-100 mg/kg
	Calcium	IS:9424-1979 reaff-2003, IS: 1448 (P-103)-1981 reaff-2008	1-100 mg /kg
	Carbon residue	IS:1448(P-122)-1987 RA -2011	0- 20%
	Calorific value	IS:1448(P-6)-1984 RA -2007	100-15000 Cal/gm
	Density/Rel density	IS:1448(P-16&32) – 1990/92 RA -2007/2008	700-3200 kg /m <sup>3</sup>
	Distillation	IS:1448(P-18)-1991 reff-2011	30- 400°C

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>118 of 144</b>

<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>
		Dissolved Gas Analysis	IS:9434 – 1992 RA –2003	1 - 10000ppm
		Flash Point (PMCC)	IS:1448(P-21) -1992, Reaff-2008	30-360 °C
		Kinematic Viscosity At 40°C/100°C	IS:1448(P-25)-1976 RA –2007	1.6-1000cst
		Cloud/Pour Point	IS:1448(P-10)-1970 RA -2008	0-21°C
		Sediment	IS:1448(P-41)- 1992 reff-2008, IS:1866 – 2000	0-20 %
		Neutralization value	IS:1448 (P-2)-1967 Reff-2008	0- 5 mgKOH/gm
		Water content	IS:2362-1993 RA 2005	0- 200 ppm, 0-20%
		Interfacial Tension	IS:6104 –1971 RA –2001 amd-1	0- 0.090 N/m (l.c 0.01 N/m)
<b>2.</b>	<b>Insulating oil IS:1866/2000</b>	Furan (5 HMF, 2FOL, 2FAL, 2ACF & 5MEF )	IS:15668/2006 ASTMD-5837 & IEC 61198	0-30%

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>119 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **VII. PAINT & SURFACE COATINGS**

<b>1. Polyurethane full gloss enamel (IS: 13213-1991)</b>	Dry Time	IS:101(P-3/Sec-1) 1986-RA 2001 amd-3	1 min onwards
	Consistency	IS:101(P-1/Sec-5):1989-RA 2004 amd. 2	Visual
	Finish	IS:101(P-3/Sec-4) :1987 RA 2004 amd. 3	Visual
	Colour	IS:101(P-4/Sec-2) :1989 RA 2004	As per Shade Cards IS: 5-2004
	Dry film thickness	IS:13213:1991 Annex-C RA 2000 amd. 1	0 – 1200 Micron
	Volume solids	IS 13213:1991 Annex.-D RA 2000 amd. 1	1 to 100%
	Scratch hardness (hand operated)	IS 101(P-5/Sec-2) :1988 RA -2004 amd. 3	Visual
	Flexibility and adhesion	IS 101(P-5/Sec-2) : 1988 RA -2004 amd. 3	Visual
Flash point	IS 101(P-1/Sec-6) :1987 RA -2004	15-70°C	

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>120 of 144</b>

<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>
		Fineness of grind	IS 101(P-3/Sec-5) :1987 RA -2004	0-100μ
		Pot life	IS 13213 :1991 Anex.E RA 2000	Up to 8 hours
		Gloss at 45 deg angle incidence	IS 101(P-4/Sec-4) :1988 RA 2001 amd. 1	5-100 %
		Weight in Kg/10 l	IS 101(P-1/Sec-7) :1987 RA-2004	1-15kg/10 l
		Resistance to sulphuric acid (Gloss retention)	IS 13213 :1991 Ann F RA 2000 amd. 1	5-100%
		Resistance to caustic potas (Gloss retention)	IS 13213 :91 AnnexF RA 2000 amd. 1	5-100%
		Resistance to oil (Gloss retention)	IS 13213:91 Annex.F RA 2000 amd. 1	5-100%
		Resistance to solvent(Gloss retention)	IS 13213:91 Annex.F RA 2000 amd. 1	5-100%
		Durability test	IS 13213:91 AnnexG RA 2000 amd. 1	5-100%
		Keeping properties	IS 101(P-6/ Sec-1):1988 RA 2005 amd.2	5-100%



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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>121 of 144</b>

<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>
2.	<b>Pigments For Paints</b>	Analysis of Pb, Cu, Cr, Cd, Hg, Se	ASTM E-1621-1994/ DTH/Distemper/WI/Metal/01 (AAS )	1-100000 mg/kg
3.	<b>Thermoplastic Paints</b>	Titanium Di-oxide	IS 1527/1972 RA 1996	0.5 – 30 %
		Calcium Carbonate and Inert Fillers	IS 8767/1978 RA 2004	0.5 – 99 %
		Glass Beads Contents	BS: 3262 (part -1)-1989	0.5 – 60 %
		Binder	BS: 3262 (part -1)-1989	0.5 – 50 %
		Bitumen content	IS 1195-2002 & IS 1322-1993 RA 1998	0.1-20%
		Matter insoluble in Trichloroethylene	IS 1216:1978	0.1-100%
		Softening point	ASTMD-36-95	30-200°C
4.	<b>Washable Distemper IS 428/2000</b>	Toxic & Heavy Metal	DTH/Distemper/WI/ Metal/01 (AAS)	
		Nickel		0.1 to 30.0mg/kg
		Cadmium		0.005to 25.0mg/kg
		Lead		0.1 to 30mg/kg
		Arsenic		0.5 to 20mg/kg
		Manganese		0.1 to 30.0mg/kg
		Selenium		0.5 to 20mg/kg
		Antimony		0.5 to 20mg/kg
		Tine		0.1 to 50mg/kg

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>122 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **VIII. BUILDING MATERIALS**

<b>1. Cement</b>	<b>IS 269- 1989 RA 2008, OPC 33 grade</b>	LOI	IS 4032-1985 RA 2005	0.1 – 10.0 %
	<b>IS 8112- 1989 RA 2009, OPC 43 Grade</b>	SiO <sub>2</sub>	IS 4032-1985	10.0 – 40 %
		Al <sub>2</sub> O <sub>3</sub>	IS 4032-1985 RA 2005	1.0 – 15.0 %
	<b>IS 12269- 1987 RA 2008, OPC 53 grade</b>	Fe <sub>2</sub> O <sub>3</sub>	IS 4032-1985 RA 2005	0.5 – 6.0 %
		CaO	IS 4032-1985 RA 2005	40.0 – 65.0 %
	<b>IS 455- 1989 RA 2005, PPC</b>	MgO	IS 4032-1985 RA 2005	0.5 – 10.0 %
		SO <sub>3</sub>	IS 4032-1985 RA 2005	0.10 – 5.0 %
	<b>IS 1489 (P-1 &amp; P-2) 1991 RA 2009, White cement and other similar products</b>	Insoluble Residue	IS 4032-1985 RA 2005	0.1 – 35 %
		Total Chloride	IS 12423-1988 RA 2005 / IS 4032-1985	0.01-0.1 %
	<b>2. Lime Stones Dolomites</b>	Sulfide Sulphur	IS 4032-1985 RA 2005	0.01 – 1.5 %
		Sodium Oxide (Na <sub>2</sub> O)	IS 4032-1985 RA 2005	0.01 – 1 %
		Potassium Oxide (K <sub>2</sub> O)	IS 4032-1985 RA 2005	0.01 – 2 %
		Titanium	IS-12423-1988	0.01-1%
Phosphorous		IS-12423-1988	0.01-1%	
	Managanese	IS-12423-1988	0.01-1%	
	LOI	IS 1760(P-1) -1991 RA 2001	0.1 – 44 %	
	SiO <sub>2</sub>	IS 1760(P-2) -1991RA 2001	0.5 – 15 %	
	Al <sub>2</sub> O <sub>3</sub>	IS 1760(P-3) -1991RA 2001	0.2 – 5.0 %	
	Fe <sub>2</sub> O <sub>3</sub>	IS 1760(P-3) -1991 RA 2001	0.1 – 6.0 %	
	CaO	IS 1760(P-3) -1991RA 2001	0.5 – 56.0 %	
	MgO	IS 1760(P-3) -1991 RA 2001	0.1 – 40.0 %	

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>123 of 144</b>

<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>
3.	<b>Mortar , cement Concrete</b>	Ratio of ingredient	IS 1199-1959 RA 2008	NA
4.	<b>Gypsum</b>	LOI Free lime Soluble Sodium salts SO <sub>3</sub> CaO MgO	IS 2547(P-1)-1976 (RA 2008) IS 2547(P-1)-1976 (RA 2008) IS 4032-1985 (RA 2005) & Flame Photometer IS 1288-1982 IS 1288-1982 IS 1288-1982 & IS 2547 (P-1)-1976(RA 2008)	0.1 to 20.0% 0.1-10.0% 0.01 to 5.0% 0.1 to 50% 0.5 to 40% 0.05-5%
5.	<b>Fly Ash</b>	LOI Silica Fe <sub>2</sub> O <sub>3</sub> +Al <sub>2</sub> O <sub>3</sub> MgO SO <sub>3</sub> Available Alkali Na <sub>2</sub> O Chloride	IS 1727-1967 RA 2004 IS 1727-1967 RA 2004 IS 1727-1967 RA 2004 IS 1727-1967 RA 2004 IS 1727-1967 RA 2004 IS 4032-1985 RA 2005 IS 12423:1988 RA 2007	0.1-15.0% 20-65.0% 0.5-50 % 0.4-10% 0.1-5.0% 0.01-3.0% 0.01-0.15%
6.	<b>Bituminous Asphalt, Tarfelt and allied Products</b>	Calcium carbonate Bitumen content Matter insoluble in Trichloroethylene	IS 1195-2002 IS 1195-2002 & IS 1322-1993 RA 1998 IS 1216:1978	0.5-95% 0.1-20% 0.1-100%

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>124 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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7.	<b>Stone Aggregate</b>	Alkali aggregate reactivity Silica	IS 2386(P-7)-63 RA 2002 IS 2386(P-7)-63 RA 2002	0-700 millimoles/l 0.1-2500 millimoles/l
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#### **IX. METALS AND ALLOYS**

1.	<b>M.S.</b>	Carbon	IS 228-1987(P-1) RA 2008	0.02-5.0%
		Sulphur	IS 228(P-9)-1987	0.005-0.5%
		Silicon	IS 228(P-8)-1989 RA 2004	0.05-8.0%
		Manganese	IS 228(P-2)-1987 RA 2002	0.01-12.0%
		Phosphorous	IS 228(P-3)-1987 RA 2002	0.005-0.5%
		Carbon equivalent	IS 1786:2008	0.1-0.60%
		Nitrogen	IS 228 (P-19) RA 2005	0.002-0.5
		Vanadium, % by mass	AAS SOP/Chemical/MT-01	0.0005-0.0010%
		Copper, % by mass	AAS SOP/Chemical/MT-02	0.0025-0.0050%
		Cadmium	AAS SOP/Chemical/MT-03	0.001-1.0%
	Titanium	AAS SOP/Chemical/MT-04	0-100mg/kg	
2.	<b>S.S.</b>	Nickel	IS 228(P-5)-1987RA 2002	0.1-12%
		Phosphorous	IS 228(P-3)-1987 RA 2002	0.005-0.045%
		Carbon	IS 228-1987(P-1) RA 2004	0.02-0.15%
		Molybdenum	IS 228(P-7)-1990 RA 2001	0.01-3%
		Chromium	IS 228(P-6)-1987 RA 2002	0.1-20%
		Silicon	IS 228(P-8)-1989 RA 2004	0.05-2.0%
		Manganese	IS 228(P-2)-1987,RA 2002	0.1-2.0%
		Sulphur	IS 228(P-9)-1989	0.005-0.04%
3.	<b>Aluminum and aluminum alloys and bars, rods IS 733-1983/ / IS 1285-2002/ IS 737:2008/ IS :738-1994</b>	Aluminum, %	IS 733-1983/ IS 1285-2002/ IS 737:2008/ IS :738-1994	70-99.9%
		Copper, %	AAS/SOP/Chemical/MT-02	0.002-15.0%
		Magnesium,%	AAS/IS 504 ( Part -6)-2002	0.1 to 11%
		Silicon ,%	IS 504( Part -1)-2002	0.3-10%
		Iron, %	AAS/SOP/Chemical/MT-05	0.002-1%

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>125 of 144</b>

<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>
		Manganese, %	AAS/IS-504/ SOP/Chemical/MT-06	0.001-10.0%
		Zinc, %	AAS/SOP/Chemical/MT-07	0.001-0.0015
		Titanium, %	AAS/SOP/Chemical/MT-04	0.001-2%
		Chromium, %	AAS/SOP/Chemical/MT-08	0.001-1%
<b>4.</b>	<b>Leaded brass products IS 292-1983, IS 318-1981, IS 319-2007, IS 320-1980, IS 407-1981</b>	Copper plus incidental nickel, %	IS 3685-1966 (Electrolytic method) RA 2006	0.002-99.5%
		Lead, % by mass	IS 3685-1966 RA 2006/ AAS	0.01-20%
		Nickel, % by mass	IS 3685-1966 RA 2006/ AAS	0.01-20%
		Tin, % by mass	IS 3685-1966 RA 2006/ AAS	0.01-15%
		Iron, % by mass	SOP/Chemical/MT-05/AAS	0.002-1%
		Aluminium, % by mass	SOP/Chemical/MT-09/ AAS	0.01-10%
		Zinc, % by mass	IS 3685-1966 RA 2006/AAS	0.01-40%
		Silicon, % by mass	IS-3685-1966	0.01-5%
		Total impurities excluding iron	IS 292, IS 318, IS 319, IS 320, IS 407	0.001 onwards

#### **X. METALLIC COATINGS AND TREATMENT SOLUTIONS**

<b>1. Aluminium Section</b>	Anodizing	IS 5523 – 1983 RA –2006	5-100 micron
<b>2. G.I. Parts</b>	Mass of zinc coating	IS 6745 – 1972 RA–2006	10-2000 gm/m <sup>2</sup>

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>126 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **XI. INDUSTRIAL AND FINE CHEMICALS**

<b>(a) Inorganic Chemicals</b>	Trace Elements (Pb,Zn,Cu, Ni, Co,	SOP/Chemical/FC-01	0.1-1000mg/l
<b>(b) Organic Chemicals And Solvents</b>	Cr, Mn, Fe, Cd)	SOP/Chemical/FC-02	
<b>Acetone</b>		SOP/Chemical/FC-03	
<b>Alcohol and allied chemicals</b>		SOP/Chemical/FC-04	
<b>(Ethanol, Butanol, Propanol, Ethylene Glycol, Glycerol, Isopropyl alcohol, BenzylAlcohol, Trichloroethylen, Phenol, (Carbolic Acid) Benzene, Benzoic acid, Carbon tetra Chloride, Acetic Acid, Antifreeze coolant)</b>		AAS	100µg/l -1000mg/kg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>127 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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## **XII. ORES AND MINERALS**

<b>1. Iron Ore</b>	LOI	IS 1493(P-1)-1981 RA 2006	0.1-5%
	SiO <sub>2</sub>	IS 1493(P-1)-1981 RA 2006	0.5-30%
	Al <sub>2</sub> O <sub>3</sub>	IS 1493(P-4)-1988 RA 2006	0.2-10 %
	Iron Oxide	IS 1493(P-1)-1981 RA 2006	0.5-97%
	TiO <sub>2</sub>	IS 1493(P-3)-1987 RA 2006	0.05-2%
	CaO	IS 1493(P-3)-1987 RA 2006	0.2-2%
	MgO	IS 1493(P-3)-1987 RA 2006	0.1-2%
	Cr <sub>2</sub> O <sub>3</sub>	IS 1493(P-3)-1987 RA 2006	0.1-10%
	MnO	IS 1493(P-1)-1981 RA 2006	0.1-5%

## **XIII. PLASTICS & PLASTIC PRODUCTS**

<b>1. PVC Pipes</b>	Ash Content	IS 4985-2000	0.05-40%
	TiO <sub>2</sub>	IS 14735-199	0.05-5%
	Effect on water Cd, Pb, Sn, Hg	IS 12235 (P-4, 10 & 11) –2004	0.0001-0.0005mg/l
	Resistance to chemical action	IS 12235 (P-7)2004 G/SDS-03/02, OCT'94	Upto 0.5%
	Moisture	IS 1350 (P-1) 1984 RA 2001	1 – 40 %
	Volatile Matter	IS 1350 (P-1) 1984 RA 2001	1 – 70 %
	Ash	IS 1350 (P-1) 1984 RA 2001	1 – 70 %
	Fixed Carbon	IS 1350 (P-1) 1984 RA 2001	by calculation
	Calorific Value	IS 1350 (P-2)-1970 RA 2000	1000 – 6000 Kcal/Kg
	Sulphur	IS 1350 (P-3)-2005 RA 2000	0.03– 10%
	Carbonate	IS 1350(P-5) –1979 RA 2001	0.05 – 1 %
	Chlorine	IS 1350(P-5) 1979 RA 2001	0.02 – 1%
	Phosphorous	IS 1350(P-5) 1979 RA 2001	0.05 – 1%
	Arsenic	IS 1350(P-5) 1979 RA 2001	0.05 – 1%

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>128 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **XIV. DRUGS & PHARMACEUTICALS**

##### **1. Raw Materials**

<b>a. General tests</b>			
	Identification of Steroids	IP -2010, Pg 93 As per specification	Qualitative test
	Identification of Related Foreign Steroids	IP -2010, Pg 78 As per specification	Qualitative test
	Identification of related Substances in Sulphonamides	IP -2010, Pg 78 As per specification	Comparative Test
	Limit Test for Arsenic	IP -2010, Pg 80 As per specification	Comparative Test
	Limit Test for Chlorides	IP -2010, Pg 80 As per specification	Comparative Test
	Limit test for free Formaldehyde	IP -2010, Pg 83 As per specification	Comparative Test
	Limit test for heavy metals	IP -2010, Pg 80 As per specification	Comparative Test
	Limit test for iron	IP -2010, Pg 81 As per specification	Comparative Test
	Limit test for lead	IP -2010, Pg 81 As per specification	Comparative Test



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>129 of 144</b>

<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>
		Limit test for sulphates	IP -2010, Pg 82 As per specification	Comparative Test
		Determination of nitrogen	IP -2010, Pg 87 As per specification	6.60% to 6.95%
		Determination of Sulphated ash	IP -2010, Pg 82 As per specification	NMT 0.1%
		Determination of water	IP -2010, Pg 97 As per specification	3.0% to 7.0%
		Determination of zinc	IP -2010, Pg 99 As per specification	99.0% to 100.5%
		Determination of acetyl value	IP -2010, Pg 84 As per specification	NLT 143
		Determination of acid value	IP -2010, Pg 84 As per specification	NMT 2.0
		Determination of ester value	IP -2010, Pg 85 As per specification	75 to 95
		Determination of hydroxyl value	IP -2010, Pg 85 As per specification	NLT 150
		Determination of iodine value	IP -2010, Pg 86 As per specification	82 to 90

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>130 of 144</b>

<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>
		Determination of peroxide value	IP -2010, Pg 92 As per specification	NMT 5.0
		Determination of saponification value	IP -2010, Pg 93 As per specification	176 to 187
		Determination of Unsaponifiable matter	IP -2010, Pg 94 As per specification	NMT 1.0%
		Determination of foreign organic matter	IP -2010, Pg 201 As per specification	NMT 2.0%
		Determination of Ethanol-soluble Extractive	IP -2010, Pg 201 As per specification	NLT 6.0%
		Determination of water soluble Extractive	IP -2010, Pg 201 As per specification	NLT 12.0%
		Determination of Total ash	IP -2010, Pg 82 As per specification	NMT 10.0%
		Determination of Acid Insoluble Ash	IP -2010, Pg 82 As per specification	NMT 2.0%
		Determination of Water Soluble Ash	IP -2010, Pg 83 As per specification	NMT 1.0%
		Determination of Total Solids	IP -2010, Pg 201 As per specification	10.0 to 20.0%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>131 of 144</b>

<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>
		Assay by Nitrite titration	IP -2010, Pg 88 As per specification	0-100%
		Assay by Non Aqueous Titration	IP -2010, Pg 147 As per specification	0-100%
		Identification by Infra Red Spectrophotometry	IP -2010, Pg 113 As per specification	Qualitative test
		Test for Clarity of solution	IP -2010, Pg 107 As per specification	Comparative Test
		Test for colour of solution	IP -2010, Pg 107 As per specification	Comparative Test
		Disintegration Test for Tablets & Capsules	IP -2010, Pg 187 As per specification	NA
		Disintegration Test for Pessaries and Suppositories	IP -2010, Pg 188 As per specification	NA
		Determination of Boiling or Distilling Range	IP -2010, Pg 119 As per specification	NLT 95%
		Determination of Congealing Range or Temperature	IP -2010, Pg 121 As per specification	50 to 65 <sup>0</sup> c
		Determination of Ethanol	IP -2010, Pg 99 As per specification	NLT 99.5%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>132 of 144</b>

<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>
		Determination of Freezing Point	IP -2010, Pg 122 As per specification	NLT 39.5 <sup>0</sup> c
		Determination of Loss on drying	IP -2010, Pg 139 As per specification	NMT 0.2%
		Determination of loss on ignition	IP -2010, Pg 140 As per specification	NMT 1.0%
		Determination of Melting Range or Temperature	IP -2010, Pg 140 As per specification	226.0 to 230.0 <sup>0</sup> c
		Determination of Optical Rotation and Specific Optical Rotation	IP -2010, Pg 143 As per specification	+32.0 to +38.0 <sup>0</sup>
		Determination of pH value	IP -2010, Pg 146 As per specification	4.0 to 5.2
		Determination of Refractive index	IP -2010, Pg 171 As per specification	NA
		Determination of Weight per Millil and Relative density	IP -2010, Pg 174 As per specification	0.945 to 0.965 g

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>133 of 144</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>	
<b>2.</b>	<b>a</b>	<b>Materials Atorvastatin Calcium IP</b>	Identification	IP-2010, Pg 849	Qualitative Present/Absent
			B)Identification	IP-2010, Pg 849	Qualitative Present/Absent
			Specific optical rotation	IP-2010, Pg 849	-6° to -12°
			Related Substances	IP-2010, Pg 849	NMT 0.5% NMT 2.0%
			Heavy Metals	IP-2010, Pg 849	Qualitative Present/Absent
			Water	IP-2010, Pg 850	3.0 to 7.0%
			Assay	IP-2010, Pg 850	98.0 to 102.0 %
<b>b.</b>	<b>Chlorphenira-mine maleate IP</b>	Identification	IP-2010, Pg 1070	Qualitative Present/Absent	
		Appearance of solution	IP-2010, Pg 1070	Qualitative Present/Absent	
		pH	IP-2010, Pg 1070	4.0 – 5.2	
		Related substances	IP-2010, Pg 1070	Qualitative Present/Absent	

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>134 of 144</b>

<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>
		Sulphated Ash	IP-2010, Pg 1071	NMT 0.1%
		Loss on drying	IP-2010, Pg 1071	NMT 0.5%
		Assay	IP-2010, Pg 1071	98 to 101%
<b>c.</b>	<b>Clotrimazole IP</b>	Identification (A)	IP-2010, Pg 1120	Qualitative Present/Absent
		Identification (B)	IP-2010, Pg 1120	Qualitative Present/Absent
		Appearance of solution	IP-2010, Pg 1120	Qualitative Present/Absent
		2 chlorotritanol	IP-2010, Pg 1120	Qualitative Present/Absent
		Imidazole	IP-2010, Pg 1121	Qualitative Present/Absent
		Sulphated Ash	IP-2010, Pg 1121	NMT 0.1%
		Loss on drying	IP-2010, Pg 1121	NMT 0.5%
		Assay	IP-2010, Pg 1121	98 to 102%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>135 of 144</b>

<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>d.</b>	<b>Ramipril IP</b>	Identification	IP-2010, Pg 2038	Qualitative Present/Absent
		Appearance of solution	IP-2010, Pg 2039	Qualitative Present/Absent
		Specific optical rotation	IP-2010, Pg 2039	+32 to +38°
		Related substances	IP-2010, Pg 2039	NMT 0.5% NMT 1.0%
		Sulphated Ash	IP-2010, Pg 2039	NMT 0.1%
		Loss on drying	IP-2010, Pg 2039	NMT 0.2%
		Assay	IP-2010, Pg 2039	98 to 101%
<b>e.</b>	<b>Paracetamol IP</b>	Identification	IP-2010, Pg 1859	Qualitative Present/Absent
		4-Aminophenol	IP-2010, Pg 1859	Qualitative Present/Absent
		Related substances	IP-2010, Pg 1859	NMT 0.1%
		Heavy metals	IP-2010, Pg 1860	Qualitative Present/Absent
		Sulphated Ash	IP-2010, Pg 1860	NMT 0.1%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>136 of 144</b>

<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>
		Loss on drying	IP-2010, Pg 1860	NMT 0.5%
		Assay	IP-2010, Pg 1860	99 to 101%
<b>3.</b>	<b>Finish Products</b>			
<b>a.</b>	<b>General Tests</b>	pH	IP-2010, Pg 146	4.0 – 5.2
	<b>Tablets/ Capsules/ Syrups</b>	Disintegration	IP-2010, Pg 187	NA
		Identification by Infra Red spectroscopy	IP-2010, Pg 113	Qualitative test
		Loss on drying	IP-2010, Pg 139	NMT 0.5%
		Water	IP-2010, Pg 850	3.0 to 7.0%
		Weight per ml	IP -2010, Pg 174	0.945 to 0.965 g
<b>4.</b>	<b>Products</b>			
<b>a.</b>	<b>Atorvastatin Calcium tablets</b>	Identification	IP-2010, Pg 850	Qualitative Present/Absent
		Dissolution	IP-2010, Pg 850	NLT 80%
		Related substances	IP-2010, Pg 850	NMT 0.1% NMT 4%
		Uniformity of weight	IP-2010, Pg 192	±7.5%
		Assay	IP-2010, Pg 851	9 to 11mg



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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>137 of 144</b>

<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>b.</b>	<b>Chlorphenira-mine injection</b>	Identification	IP-2010, Pg 1071	Qualitative Present/Absent
		pH	IP-2010, Pg 1071	4.0 to 5.2
		Related Substances	IP-2010, Pg 1071	Qualitative Present/Absent
		Uniformity of Volume	IP-2010, Pg 748	NMT 115%
		Assay	IP-2010, Pg 1071	9 to 11mg
<b>c.</b>	<b>Clotrimazoles cream</b>	Identification	IP-2010, Pg 1121	Qualitative Present/Absent
		2 Chlorotrianol	IP-2010, Pg 1121	Qualitative Present/Absent
		Uniformity of weight	IP-2010, Pg 194	±7.5%
		Assay	IP-2010, Pg 1122	0.95 to 1.05%
		<b>d.</b>	<b>Ramipril Tablets IP</b>	Identification
Uniformity of weight	IP-2010, Pg 752			±7.5%
Dissolution	IP-2010, Pg 2040			NLT 75%
Uniformity of content	IP-2010, Pg 2040			85 to 115%
Assay	IP-2010, Pg 2040			4.5 to 5.5mg

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>138 of 144</b>

<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>e.</b>	<b>Paracetamol syrup IP</b>	Identification	IP-2010, Pg 1860	Qualitative Present/Absent
		Uniformity of volume	IP-2010, Pg 745	±9%
		4-Aminophenol	IP-2010, Pg 1860	Qualitative Present/Absent
		Assay	IP-2010, Pg 1860	112.5 to 137.5mg
<b>5.</b>	<b>Herbal Products Ayurvedic/ Unani Medicines</b>			
<b>a</b>	<b>Choorna/Kavatha choorna</b>	(a) Loss on drying at 105 <sup>0</sup> C	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 35%
		(b) Total Ash	API-2011/UPI-2009/ ASU Protocol-2007	0.01 to 98%
		(c) Acid insoluble ash	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 95%
		(d) Alcohol Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 65%
		(e) Water Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 85%
		(f) pH 1% Soln.	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>139 of 144</b>

<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>b.</b>	<b>Avaleha/Pak/Rasyan</b>	(a) Loss of drying at 105 <sup>0</sup> C	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 35%
		(b) Total Ash	API-2011/UPI-2009/ ASU Protocol-2007	0.01 to 98%
		(c) Acid insoluble ash	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 95%
		(d) Alcohol Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 65%
		(e) Water Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 85%
		(f) Total Sugar	API-2011/UPI-2009/ ASU Protocol-2007	Upto 90%
		(g) Reducing Sugar	API-2011/UPI-2009/ ASU Protocol-2007	Upto 90%
		(h) pH 1% Soln.	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12
<b>c.</b>	<b>Taila/Ghrita</b>	(a) Weight per ml	API-2008/UPI-2009/ ASU Protocol-2007	0.9 to 1.5gm
		(b) Saponification Value	API-2011/UPI-2009/ ASU Protocol-2007	Upto 350

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>140 of 144</b>

<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>
		(c)Acid Value	API-2011/UPI-2009/ ASU Protocol-2007	Upto 40
		(d)Peroxide Value	API-2011/UPI-2009/ ASU Protocol-2007	Upto 15
		(e)Iodine Value	API-2011/UPI-2009/ ASU Protocol-2007	Upto 150
		(f)Refractive index	API-2011/UPI-2009/ ASU Protocol-2007	1.300 to 1.700
		(g)Mineral oil	API-2011/UPI-2009/ ASU Protocol-2007	Qualitative
		(h) Specific gravity	API-2011/UPI-2009/ ASU Protocol-2007	0.780-1.50
		(i)Unsaponifiable matter	API-2011/UPI-2009/ ASU Protocol-2007	0.1-10
<b>d.</b>	<b>Guggulu/Pills/ Vati</b>	(a) Loss on drying at 105 <sup>0</sup> C	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 35%
		(b)Total Ash	API-2011/UPI-2009/ ASU Protocol-2007	0.01 to 98%
		(c) Acid insoluble ash	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 95%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>141 of 144</b>

<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>
		(d) Alcohol Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 65%
		(e) Water Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 85%
		(f) pH 1% Soln.	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12
<b>e.</b>	<b>Rasa/Bhasma/Louha/Mandoor/Pishti/Perpati</b>	(a) Loss of drying at 105 <sup>0</sup> C	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 35%
		(b) Total Ash/Loss on ignition	API-2011/UPI-2009/ ASU Protocol-2007	0.01 to 99.9%
		(c) Acid insoluble ash	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 95%
		(d) Alcohol Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 65%
		(e) Water Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 85%

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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>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>142 of 144</b>

<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>f.</b>	<b>Tablet/ Capsule</b>	(a)Average weight	API-2011/UPI-2009/ ASU Protocol-2007	Up to 1000 mg
		(b)Disintegration Time	API-2011/UPI-2009/ ASU Protocol-2007	1 to 100 min
		(c) Loss on drying at 105 <sup>0</sup> C	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 35%
		(d) Total Ash	API-2011/UPI-2009/ ASU Protocol-2007	0.01 to 98%
		(e) Acid insoluble ash	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 95%
		(f) Alcohol Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 65%
		(g) Water Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 85%
		(h)pH 1%	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12
<b>g.</b>	<b>Araq</b>	(a)Specific gravity/weight per ml	API-2011/UPI-2009/ ASU Protocol-2007	0.920 to 1.500
		(b)Volatile oil	API-2011/UPI-2009/ ASU Protocol-2007	0.2 to 99%
		(c)Refractive index	API-2011/UPI-2009/ ASU Protocol-2007	1.33 to 1.49

<b>Laboratory</b>	<b>Delhi Test House, A-62/3, G. T. Karnal Road, Industrial Area, Azadpur, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
<b>Certificate Number</b>	<b>T-0173</b>	<b>Valid Until</b>	<b>02.03.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>143 of 144</b>

<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>h.</b>	<b>Asava /Aristha</b>	(a)Total Solids	API-2011/UPI-2009/ ASU Protocol-2007	0 to 95%
		(b)Total Sugar	API-2011/UPI-2009/ ASU Protocol-2007	Up to 90%
		(c)Reducing Sugar	API-2011/UPI-2009/ ASU Protocol-2007	Up to 90%
		(d)pH as such	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12
		(e)Specific gravity	API-2011/UPI-2009/ ASU Protocol-2007	0.995 to 1.500
		(f)Non-Reducing Sugar	API-2011/UPI-2009/ ASU Protocol-2007	Up to 80%
<b>i.</b>	<b>Marham / Ointment</b>	(a) Loss on drying at 105 <sup>0</sup> C	API-2011/UPI-2009/ ASU Protocol-2007	0.02 to 35%
		(b)pH 1%	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12
		(c)Total Fatty Matter	API-2011/UPI-2009/ ASU Protocol-2007	Up to 80%
		(d)Rancidity test	API-2011/UPI-2009/ ASU Protocol-2007	Qualitative

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.03.2014</b>
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<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>144 of 144</b>

<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>j.</b>	<b>Syrup/ Sharbat</b>	(a) Alcohol Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 65%
		(b) Water Soluble Extractive	API-2011/UPI-2009/ ASU Protocol-2007	0.5 to 85%
		(c) Total Sugar	API-2011/UPI-2009/ ASU Protocol-2007	Up to 90%
		(d) Reducing Sugar	API-2011/UPI-2009 ASU Protocol-2007	Up to 90%
		(e) pH 1%	API-2011/UPI-2009/ ASU Protocol-2007	1 to 12

#### **XV. COAL, COKE & OTHER SOLID FUELS**

<b>1. Coal &amp; Coke</b>	Moisture	IS 1350 (P-1) 1984 RA 2001	1 – 40 %
	Volatile Matter	IS 1350 (P-1) 1984 RA 2001	1 – 70 %
	Ash	IS 1350 (P-1) 1984 RA 2001	1 – 70 %
	Fixed Carbon	IS 1350 (P-1) 1984 RA 2001	By calculation
	Calorific Value	IS 1350 (P-2)-1970 RA 2000	1000 – 6000 kcal/kg
	Sulphur	IS 1350 (P-3)-2005 RA 2000	0.03– 10%
	Carbonate	IS 1350(P-5) –1979 RA 2001	0.05 – 1 %
	Chlorine	IS 1350(P-5) 1979 RA 2001	0.03 – 1%
	Phosphorous	IS 1350(P-5) 1979 RA 2001	0.05 – 1%
	Arsenic	IS 1350(P-5) 1979 RA 2001	0.05 – 1%

-X-X-X-X-X-X-X-X-X-X-X-X-

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