

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	1 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	POLLUTION AND ENVIRONMENT			
1.	Liquid Effluent/ Water and Waste Water	pH	APHA 4500 H ⁺ B 22 nd Edition, 2012, IS 3025 (Part 11):1984, RA 2006 On site by handy pH meter	1 to 14
		Conductivity	APHA 2510 B, 22 nd Edition, 2012, IS 3025 (Part 14): 1984, RA 2006	0.1 to 20,000 μS/cm
		Dissolved Oxygen	APHA 4500 O C 22 nd Edition, 2012	0.5 to 10 mg/l
		Total Solids	APHA 2540 B 22 nd Edition, 2012	5 to 10000 mg/l
		Total Dissolved Solids	APHA 2540 C 22 nd Edition, 2012, IS 3025 (Part 16): 1984, RA 2006	1 to 10000 mg/l
		Total Suspended Solids	APHA 2540 D 22 nd Edition, 2012, IS 3025 (Part 17): 1984, RA 2006	5 to 10000 mg/l
		Chromium (Cr ⁺⁶)	APHA 3500 Cr B 22 nd Edition, 2012	0.02 to 10.0 mg/l
		BOD (5 days@20°C)	APHA 5210 B 22 nd Edition, 2012	1 to 50000 mg/l
		BOD (3 days @ 27°C)	IS 3025(Part 44):1993, RA 2009	1 to 50000 mg/l
		COD	APHA 5220 B, APHA 5520 D, 22 nd Edition, 2012	4 to 100000 mg/l
		Cyanide	APHA 4500 CN E 22 nd Edition, IS 3025(Part 27):1986, RA 2009	0.02 to 1 mg/l

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	2 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Oil and Grease	APHA 5520 B 22 nd Edition, 2012, IS 3025 (Part 39):1991, RA 2009	1 to 10 mg/l 10 to 20 mg/l 20 to 100 mg/l 100 to 500 mg/l
		Phenol compounds	APHA 5530 C, D 22 nd Edition, 2012, IS 3025 (Part 43):1992, RA 2009	0.001 to 2.0 mg/l
		Nitrate Nitrogen	APHA 4500 NO ₃ B, 22 nd Edition, 2012, IS 3025 (Part 34):1988, RA 2009	0.5 to 10 mg/l
		Chloride	APHA 4500 Cl B, 22 nd Edition, 2012, IS 3025 (Part 32):1988, RA 2009	5.0 to 1500 mg/l
		Phosphates	APHA 4500 P C, D 22 nd Edition, 2012	1 to 5 mg/l 5 to 20 mg/l 20 to 50 mg/l
		Sulphates	APHA 4500 SO ₄ E 22 nd Edition, 2012	5 to 10 mg/l 10 to 40 mg/l 40 to 3000 mg/l
		Cadmium	APHA 3500 Cd 22 nd Edition, 2012, IS 3025 (Part 41):1992, RA 2009, IS 3025 (Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 1.0 mg/l 1.0 to 2.0 mg/l 2.0 to 5.0 mg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	3 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Copper	APHA 3500 Cu A, 22 nd Edition, 2012, IS 3025 (Part 42) 1992, RA 2009, IS 3025 (Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 1.0 mg/l 1.0 to 2.0 mg/l 2.0 to 5.0 mg/l
		Nickel	APHA 3500 Ni, 22 nd Edition, 2012, IS 3025 (Part 54): 2003, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 2.0 mg/l 2.0 to 5.0 mg/l
		Chromium	APHA 3500 Cr A, 22 nd Edition, 2012, IS 3025 (Part 52):2003, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 1.0 mg/l 1.0 to 2.0 mg/l 2.0 to 5.0 mg/l
		Lead	APHA 3500 Pb A, 22 nd Edition, 2012, IS 3025(Part 47): 1994, RA 2009, IS 3025 (Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.2 mg/l 0.2 to 1.0 mg/l 1.0 to 5.0 mg/l
2.	Solid Wastes, Hazardous solid wastes, Toxic wastes	pH	EPA 9045C	1 to 14
		Loss on ignition at 550°C	EPA 160.4	0.5 to 99 %
		Loss on drying at 105°C	LATS/16/2002 -03	0.5 to 99 %
		Organic content	EPA 160.4	0.5 to 99 %

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	4 of 75

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		Sulphate	EPA SW 846 method 9038	1 to 100mg/kg 100 to 2000mg/kg
		Chloride	EPA SW 846 method 9253	1 to 100 mg/kg 100 to 1000 mg/kg
		Calorific value	IS 1350:1966	100 to 500 cal/g 500 to 15000 cal/g
	Copper	By TCLP, LATS/16/2002 to 03, Chapter 7, pg 170		0.5 to 10000mg/kg
	Nickel			0.5 to 10000mg/kg
	Chromium			0.5 to 10000mg/kg
	Zinc			0.5 to 10000mg/kg
	Cadmium	By Digestion, LATS/16/2002 to 03, Chapter 5, pg 41,		0.5 to 10000mg/kg
	Lead			0.5 to 10000mg/kg
	Mercury			0.5 to 10000mg/kg
	Barium			0.5 to 10000mg/kg
	Arsenic			0.5 to 10000mg/kg
	Selenium			0.5 to 10000mg/kg
	Cobalt			0.5 to 10000mg/kg
	Calcium			0.5 to 10000mg/kg
	Magnesium			0.5 to 10000mg/kg
	Sodium			0.5 to 10000mg/kg
	Potassium			0.5 to 50.0 mg/kg or mg/l
	Boron			0.5 to 50.0 mg/kg or mg/l
	Iron			0.5 to 50.0 mg/kg or mg/l
	Manganese			0.5 to 50.0 mg/kg or mg/l
	Aluminium			0.5 to 50.0 mg/kg or mg/l
	Silver			0.5 to 50.0 mg/kg or mg/l
	Tin			0.5 to 10 mg/kg or mg/l

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	5 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Copper	USEPA 1311 / USEPA 6010 B,	0.01 to 50mg/l
		Nickel	APHA 3120 B, 22 nd Edition, 2012	0.01 to 50mg/l
		Chromium		0.01 to 50mg/l
		Zinc		0.01 to 50mg/l
		Cadmium		0.01 to 50mg/l
		Lead		0.01 to 50mg/l
		Mercury		0.01 to 50mg/l
		Barium		0.01 to 50mg/l
		Arsenic		0.01 to 50mg/l
		Selenium		0.01 to 50mg/l
		Cobalt		0.01 to 50mg/l
		Calcium		0.01 to 50mg/l
		Magnesium		0.01 to 50mg/l
		Sodium		0.01 to 50mg/l
		Potassium		0.01 to 50mg/l
		Boron		0.01 to 50mg/l
		Iron		0.01 to 50mg/l
		Manganese		0.01 to 50mg/l
		Aluminium		0.01 to 50mg/l
		Silver		0.01 to 50mg/l
		Tin		0.01 to 50mg/l

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	6 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II. AIR, GASES AND ATMOSPHERE				
1.	Stack Emission Monitoring	Total Particulate Matter	IS 11255(Part 1):1985, RA 2003	10 to 1000 mg/ Nm ³
		Sulphur Dioxide	IS 11255(Part 2):1985, RA 2003, APHA 12402 01 - 74T	6 to 500 mg/ Nm ³
		Carbon dioxide	IS 13270:1992 RA 2009, APHA Method No. 133 and 134 Page No. 373 to 378	> 0.2 % >0.05%
		Oxides of Nitrogen	IS 11255(Part 7):2005, APHA 42603 01 - 70T	0.1 to 10 mg/ Nm ³ and above
2	Ambient Air Monitoring	SPM	IS 5182 (Part 4):1999, RA 2005	10 to 1000 µg/m ³
		RSPM	IS 5182(Part 23):2006, RDS Method	10 to 1000 µg/m ³
		SO ₂	IS 5182(Part 2):2001, RA 2006, APHA 42401 01 - 69T	3 to 100 µg/m ³
		NOx	IS 5182(Part 6):2006, APHA 42602 01 - 68T	8 to 100 µg/m ³
		Lead	ICP / US EPA IO 3.4	0.01 to 1.0 µg/m ³
		Hydrogen Sulphide	IS 5182(Part 7):1973, RA 2009, APHA 42402 01 - 70T	6 to 600 µg/m ³
		PM _{2.5}	US EPA CFR 40 Part 50 Appendix L	1 to 10 µg/m ³ 10 to 100 µg/m ³ 100 to 200 µg/m ³
		CO	IS 5182(Part 10):1999, RA 2009, APHA Method No. 133 Page No. 369 to 373	1 ppm and above

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	7 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		NH ₃	APHA 42604 01 - 72T	1 to 10 µg/m ³ 10 to 50 µg/m ³ 50 to 700 µg/m ³
		Arsenic as As	ICP Method / US EPA IO 3.4	0.42 to 10 ng/m ³ 10 to 50 ng/m ³ and above
		Nickel as Ni	ICP Method / US EPA IO 3.4	0.42 to 10 ng/m ³ 10 to 50 ng/m ³ and above
		Benzene	IS 5182 (Part 11): 2006, GC FID	2.1 to 5 µg/m ³ and above
		Benzo(a)pyrene	IS 5182(Part 12): 2004, RA 2009, GC MS	0.1 ng/m ³ and above
		Ozone	APHA Method No. 820, P & CAM 154	4 to 20 µg/m ³ 20 to 50 µg/m ³ and above
3.	Noise level Measurement Excluding Vibration	Ambient Noise level Measurement (Ld, Ln, Ldn, Lmin., Lmax., L50, L90, L10)	IS 9989:1981	30 to 130 dB

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	8 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
III.	WATER			
1.	Packaged Drinking Water, Drinking Water Packaged Natural Mineral Water Bore water, Industrial Cooling purposes, Swimming pool water, Water for food processing industry, Construction water	Color	APHA 2120 B, D 22 nd Edition, 2012, IS 3025 (Part 4): 1983, RA 2006	1 to 10Hazen or CU 10 to 500Hazen or CU
		Odour	IS 3025(Part 5):1983, RA 2006	NA
		Taste	IS 3025 (Part 8):1984, RA 2006	NA
		Turbidity	APHA 2130 B, 22 nd Edition, 2012, IS 3025 (Part 10): 1984, RA 2006	0.1 to 10 NTU, 10 to 100 NTU, 100 to 500 NTU, 500 to 1000 NTU, 1000 to 4000 NTU
		TDS	APHA 2540 C, 22 nd Edition, 2012, IS 3025(Part 16):1984, RA 2006	10 to 100 mg/l, 100 to 500 mg/l, above 500 mg/l
		pH	APHA 4500 H ⁺ B 22 nd Edition, 2012, IS 3025 (Part 11) :1984, RA 2006 On site by handy pH meter	1 to 14
		Barium as Ba	APHA 3500 Ba 22 nd Edition, 2012, Annex F of IS 13428 :2005, RA 2009, IS 3025(Part 2): 2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 2.0 mg/l , 2.0 to 5.0 mg/l

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	9 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Copper as Cu		APHA 3500 Cu A, 22 nd Edition, 2012, IS 3025 (Part 42): 1992, RA 2009, IS 3025 (Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.4 mg/l, 0.4. to 1.0 mg/l, 1.0 to 5.0 mg/l
	Iron as Fe		APHA 3500 Fe B 22 nd Edition, 2012, IS 3025 (Part 53): 2003, RA 2009, IS 3025 (Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.5 mg/l, 0.5 to 2.0 mg/l, 2.0 to 5.0 mg/l
	Manganese as Mn		APHA 3500 Mn A 22 nd Edition, 2012, IS 3025 (Part 59): 2006, IS 3025 (Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.5 mg/l, 0.5 to 2.0 mg/l, 2.0 to 5.0 mg/l
	Nitrate as NO ₃		APHA 4500 NO ₃ B, 22 nd Edition, 2012, IS 3025(Part 34): 1988, RA 2009	0.1 to 5.0 mg/l, 5.0 to 50.0 mg/l, above 50 mg/l
	Nitrite as NO ₂		APHA 4500 NO ₂ B 22 nd Edition, 2012, IS 3025(Part 34): 1988, RA 2009	0.005 to 0.1 mg/l, 0.1 to 1.0 mg/l 1.0 to 10 mg/l
	Fluoride as F		APHA 4500 F D 22 nd Edition, 2012, IS 3025(Part 60): 2008	0.1 to 1.4 mg/l, 1.4 to 5.0 mg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	10 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Zinc as Zn		APHA 3500 Zn A, 22 nd Edition, 2012, IS 3025(Part 49): 1994, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 5 mg/l, above 5.0 mg/l
	Silver as Ag		APHA 3500 Ag 22 nd Edition, 2012, Annex J of IS 13428: 2005, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.1 mg/l, 0.1 to 2.0 mg/l
	Aluminium as Al		APHA 3500 Al B 22 nd Edition, 2012, IS 3025(Part 55): 2003, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.2 mg/l, 0.2 to 5.0 mg/l
	Chloride as Cl		APHA 4500 Cl B 22 nd Edition, 2012, IS 3025(Part 32): 1988, RA 2009	2 to 20 mg/l, 20 to 100, 100 to 500 mg/l, above 500 mg/l
	Selenium as Se		APHA 3500 Se A 22 nd Edition, 2012, IS 3025(Part 56): 2003, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.005 to 0.05 mg/l, 0.05 to 1 mg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	11 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphate as SO ₄	APHA 4500 SO ₄ E 22 nd Edition, 2012, IS 3025(Part 24): 1986, RA 2009	5 to 50 mg/l, 50 to 200 mg/l, above 200 mg/l
		Alkalinity as HCO ₃	APHA 2320 B 22 nd Edition, 2012, IS 3025(Part 23):1986, RA 2009	5 to 50mg/l, 50 to 500 mg/l, above 500 mg/l
		Calcium as Ca	APHA 3500 Ca B 22 nd Edition, 2012, IS 3025(Part 40): 1991, RA 2009, IS 3025(Part 2):2004, RA 2009	5 to 10 mg/l, 10 to 100 mg/l 100 to 200 mg/l
		Magnesium as Mg	APHA 3500 Mg B, 22 nd Edition, 2012, IS 3025(Part 46): 1994, RA 2009, IS 3025(Part 2):2004, RA 2009	5 to 10 mg/l, 10 to 100 mg/l 100 to 200 mg/l
		Sodium as Na	APHA 3500 Na B, 22 nd Edition, 2012, IS 3025(Part 45): 1993, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.1 to 5 mg/l, 5 to 50 mg/l 50 to 500 mg/l
		Residual Free Chlorine	APHA 4500 Cl G 22 nd Edition, 2012, IS 3025(Part 26): 1986, RA 2009 On site Qualitative test EL/SOP/66, Issue No. 01, Dt. 20.06.2014	0.05 to 0.5 mg/l, 0.5 to 2.0 mg/l, 2.0 to 4.0 mg/l
		Phenolic compounds	APHA 5530 C, D 22 nd Edition, 2012, IS 3025(Part 43):1992, RA 2009	0.0005 to 0.01mg/l 0.01 to 0.1 mg/l, 0.1 to 0.5 mg/l, 0.5 to 1.0 mg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	12 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Anionic Surface active agents as MBAS	APHA 5540 C 22 nd Edition, 2012, Annex K of IS 13428:2005, RA 2009	0.04 to 0.5 mg/l, 0.5 to 2 mg/l
		Sulphide	APHA 4500 S 22 nd Edition, 2012, IS 3025(Part 29):1986, RA 2009	0.04 to 0.5 mg/l, 0.5 to 5.0 mg/l
		Antimony as Sb	APHA 3500 Sb 22 nd Edition, 2012, Annex G of IS 13428 :2005, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.005 to 0.1 mg/l, 0.1 to 0.5 mg/l, 0.5 to 2.0 mg/l
		Borates as B	APHA 4500 B A 22 nd Edition, 2012, Annex H of IS 13428 :2005, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 1 mg/l, 1.0 to 10.0 mg/l
		Permanganate value	IS 3025(Part 63):2007	0.4 to 1.0 mg/l
		Mercury as Hg	APHA 3500 Hg 22 nd Edition, 2012, IS 3025(Part 48):1994, RA 2009, EPA method 200.7, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.001 to 0.1, 0.1 to 1.0 mg/l
		Cadmium as Cd	APHA 3500 Cd 22 nd Edition, 2012, IS 3025(Part 41):1992, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.002 to 0.1 mg/l, 0.1 to 1.0 mg/l, 1.0 to 2.0 mg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	13 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Arsenic as As	APHA 3500 As A 22 nd Edition, 2012, IS 3025(Part 37): 1988, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.1 mg/l, 0.1 to 0.5 mg/l, 0.5 to 1.0 mg/l
		Cyanide as CN	APHA 4500 CN E 22 nd Edition, 2012, IS 3025(Part 27): 1986, RA 2009	0.01 to 0.2 mg/l
		Lead as Pb	APHA 3500 Pb A, 22 nd Edition, 2012, IS 3025(Part 47): 1994, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.1 mg/l, 0.1 to 0.5 mg/l, 0.5 to 2.0 mg/l
		Chromium as Cr	APHA 3500 Cr A, 22 nd Edition, 2012, Annex J of IS 13428:2005, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.5 mg/l, 0.5 to 1.0 mg/l, 1.0 to 2.0 mg/l
		Nickel as Ni	APHA 3500 Ni, 22 nd Edition, 2012, Annex L of IS 13428:2005, RA 2009, IS 3025(Part 2):2004, RA 2009, EL/SOP/545, Issue No. 01, Dt. 10.10.2013	0.01 to 0.2 mg/l, 0.2 to 0.5 mg/l, 0.5 to 2.0 mg/l
		Total Hardness	APHA 2340 C, 22 nd Edition, 2012, IS 3025(Part 21):2009	2 to 10 mg/l, 10 to 200 mg/l Above 200 mg/l,

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	14 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chromium as Cr ⁺⁶	APHA 3500 Cr B 22 nd Edition, 2012	0.05 to 1.0 mg/l, 1.0 to 2.0 mg/l
		Mineral oil	IS 3025 (Part 39) :1991	0.01 to 10 mg/l, 10 to 50 mg/l 50 to 100 mg/l
	PAH		APHA 6440, 22 nd Edition, 2012, Laboratory validated method	0.05 to 5000 µg/l
	Naphthalene		EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA 8270 D	0.05 to 5000 µg/l
	Acenaphthylene			0.05 to 5000 µg/l
	Acenaphthene			0.05 to 5000 µg/l
	Fluorene			0.05 to 5000 µg/l
	Phenanthrene			0.05 to 5000 µg/l
	Anthracene			0.05 to 5000 µg/l
	Fluoranthene			0.05 to 5000 µg/l
	Pyrene			0.05 to 5000 µg/l
	Benzo(a)anthracene			0.05 to 5000 µg/l
	Chrysene			0.05 to 5000 µg/l
	Benzo(b)fluoranthene			0.05 to 5000 µg/l
	Benzo(k)fluoranthene			0.05 to 5000 µg/l
	Benzo(a)pyrene			0.05 to 5000 µg/l
	Dibenzo(a,h)anthracene			0.05 to 5000 µg/l
	Benzo(g,h,i)perylene			0.05 to 5000 µg/l
	Indeno (1,2,3 ,c, d) pyrene			0.05 to 5000 µg/l
	PCB		Annex M of IS 13428: 2005, RA 2009, Laboratory validated method	0.05 to 5000 µg/l
	2 Chlorobiphenyl		EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA 8270 D	0.05 to 5000 µg/l
	2,2 Dichlorobiphenyl			0.05 to 5000 µg/l
	2,2',5 Trichlorobiphenyl			0.05 to 5000 µg/l
	2,4',5 Trichlorobiphenyl			0.05 to 5000 µg/l
	2,2',5,5' Tetrachlorobiphenyl			0.05 to 5000 µg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	15 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		2,2',3,5' Tetrachlorobiphenyl		0.05 to 5000 µg/l
		2,3',4,4' Tetrachlorobiphenyl		0.05 to 5000 µg/l
		2,2',4,5,5' Pentachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,4,5' Pentachlorobiphenyl		0.05 to 5000 µg/l
		2,3,3',4',6 Pentachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,5,5',6 Hexachlorobiphenyl		0.05 to 5000 µg/l
		2,2',4,4',5,5' Hexachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,4,5,5' Hexachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,4,4',5' Hexachlorobiphenyl	Annex M of IS 13428: 2005, RA 2009, Laboratory validated method EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA 8270 D	0.05 to 5000 µg/l
		2,2',3,4',5,5',6 Heptachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,4,4',5',6 Heptachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,4,4',5,5' Heptachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,3',4,4',5 Heptachlorobiphenyl		0.05 to 5000 µg/l
		2,2',3,3',4,4',5,5',6 Nonachlorobiphenyl		0.05 to 5000 µg/l
		Pesticide Residues		
		o,p DDE	Laboratory validated method EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA 508	0.01 to 1000 µg/l
		P,p DDE		0.01 to 1000 µg/l
		o,p DDD		0.01 to 1000 µg/l
		o,p DDT		0.01 to 1000 µg/l
		P,p DDT		0.01 to 1000 µg/l
		P,p DDD		0.01 to 1000 µg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	16 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Lindane (γ HCH)			0.01 to 1000 µg/l
	α HCH			0.01 to 1000 µg/l
	B HCH			0.01 to 1000 µg/l
	Delta HCH			0.01 to 1000 µg/l
	Endosulfan I			0.01 to 1000 µg/l
	Endosulfan II			0.01 to 1000 µg/l
	Endosulfan Sulphate			0.01 to 1000 µg/l
	Ethion		Laboratory validated method EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA1657A	0.01 to 1000 µg/l
	2,4 D		Laboratory validated method EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA 515.1	0.01 to 1000 µg/l
	Butachlor		Laboratory validated method	0.01 to 1000 µg/l
	Aldrin		EL/SOP/041, Issue No. 01, Dt.	0.01 to 1000 µg/l
	Dieldrin		01.09.2008, based on EPA 525.2 and 8141 A	0.01 to 1000 µg/l
	Alachor			0.01 to 1000 µg/l
	Atrazine			0.01 to 1000 µg/l
	Phorate		Laboratory validated method	0.01 to 1000 µg/l
	phorate sulphoxide		EL/SOP/041, Issue No. 01, Dt.	0.01 to 1000 µg/l
	phorate sulphone		01.09.2008, based on EPA 8141 A	0.01 to 1000 µg/l
	Chlorpyrifos			0.01 to 1000 µg/l
	Methyl Parathion			0.01 to 1000 µg/l
	Paraoxon Methyl			0.01 to 1000 µg/l
	Malathion			0.01 to 1000 µg/l
	Malaoxon			0.01 to 1000 µg/l
	Monocrotophos			0.01 to 1000 µg/l

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	17 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Isoproturon	Laboratory validated method EL/SOP/041, Issue No. 01, Dt. 01.09.2008, based on EPA 532	0.01 to 1000 µg/l
IV. PLASTICS AND PLASTIC PRODUCTS				
1.	Containers for Packaging of Natural Mineral Water and Packaged Drinking Water (Plastic Cups, Glasses, Bottles, Jars)	Overall Migration test	IS 9845:1998, RA 2010, method I and II	0 to 100 mg/l
		Water Potability test	Annex B of IS 15410:2003, RA 2009, Amendments I & II	Qualitative
2.	Polyethylene Flexible Pouches for the Packing of Natural Mineral Water and Packaged Drinking Water	Water Potability test	Annex E of IS 15609:2005, RA 2010	Qualitative
		Overall migration	IS 9845:1998, RA 2010 Method III	0.1 to 50 mg/dm ² 0 to 100 mg/l
3.	Polyethylene for its Safe Use in Contact with Foodstuffs, Pharmaceuticals and Drinking Water (Caps, aluminium foils, laminates of packaging materials)	Overall migration	IS 9845:1998, RA 2010 method IV	0.1 to 50 mg/dm ² 0 to 100 mg/l
		Color migration	IS 9845:1998, RA 2010	Qualitative

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	18 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
V.	FOOD AND AGRICULTURAL PRODUCTS:			
1.	Milk	Moisture	IS 1479 Part (2) : 1961 RA 2009 , AOAC 990.19: 19 th Ed 2012	80 – 90 %
		Total solids	IS 1479 Part (2) : 1961 RA 2009, AOAC 990.19: 19 th Ed 2012	10 – 20 %
		Milk solids not fat	IS 1479 Part (2) : 1961 RA 2009 , AOAC 990.19: 19 th Ed 2012	6 – 19 %
		Fat	IS 1479 Part (2) : 1961 RA 2009, AOAC 990.19: 19 th Ed 2012, IS 1224(Part 1):1977, RA 2009, AOAC (2000.18) : 19 th Ed 2012	1 – 7 %
		Protein (N × 6.38)	IS 1479 Part (2) 1961RA 2009, IS 7219 : 1973 RA 2010, AOAC 991.20: 19 th Ed 2012, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	3 – 4 %
		Ash	IS 1479 Part (2) : 1961, AOAC 945.46: 19 th Ed 2012	0.2 – 1 %
		Lactose	IS 1479 Part (2) : 1961	3 – 5 %
		Sucrose	IS 1479 Part (2) : 1961	Qualitative (Present/Absent)
		Neutralizers	IS 1479(Part 2):1961, RA 2009, IS 1479(Part 1):1960, RA 2009	Qualitative (Present/Absent)
		Alkalinity of Ash	IS 1479(Part 2):1961, RA 2009, IS 1479(Part 1):1960, RA 2009	0 – 1.2 ml

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	19 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Added Formaldehyde	IS 1479 (Part 1):1960, RA 2009	Qualitative (Present/Absent)
		Detection of Urea	IS 1479 (Part 1):1960, RA 2009	Qualitative (Present/Absent)
		Salt as NaCl	IS 1479 (Part 1):1960, RA 2009	0.1 – 0.3%
2.	Milk powder	Moisture	IS 11623:2008	0.20 – 10 %
		Total solids	IS 11623 :2008, AOAC 927.05: 19 th Ed 2012	90 – 99.8 %
		Milk fat	Is 11721 : 2005 RA 2010 , AOAC 932.06: 19 th Ed 2012	1 – 30%
		Insolubility index	IS 12759 : 1989 RA 2010	0.2 – 15ml
		Total Ash	Annex. B of IS 14433 : 2007	4 – 10 %
		Titrateable acidity as Lactic acid	Is 11766 : 1986 RA 2008	0.9 – 2 %
		Protein in milk solids not fat	IS 7219:1973, RA 2010, AOAC 930.29: 19 th Ed 2012	31 – 38 %
		Scorched particles	IS 13500 : 1992 RA 2008	7.5 – 32.5 mg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	20 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Milk and Dairy Products Milk , Condensed milk, partly skimmed and skimmed milk, Milk cereal based weaning food Processed cereal based weaning food, Milk and Dairy Products Contd.	Moisture	IS 1479(Part 2):1961, RA 2009, IS 3507:1966, RA 2009, AOAC (920.116) : 19 th Ed 2012, IS 3508 :1966, RA 2009, IS 12333:1997, RA 2008, IS 2785:1979, RA 2011, AOAC (926.08) : 19 th Ed 2012, IS 10484:1983, RA 2010	0.1 to 20 % 20.0 to 60.0 % 60 to 90 %
		Total Solids	IS 12333:1997, RA 2008, IS 2802 :1964, RA 2011, AOAC (941.08) : 19 th Ed 2012, IS 1479(Part 2):1960, RA 2009	10 to 40 % 40 to 99.5 %
		Protein N x 6.38	IS 7219:1973, RA 2010, AOAC (930.33) : 19 th Ed 2012, 1479 (Part 2):1960, RA 2009, AOAC (920.109, 920.123): 19 th Ed 2012, GAFTA 2003, Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	6.0 to 40.0%
		Titration Acidity as Lactic acid	IS 1166:1986, RA 2009, 10484 :1983, RA 2010, IS 11765:1986, RA 2008, IS 3509:1966, RA 2009, IS 2802:1964, RA 2011, AOAC (969.21):19 th Ed 2012, IS 3507 :1966, RA 2009, IS 3508:1966, RA 2009, IS 11766:1986, IS 1165 :2002, IS 1479(Part 1):1960, RA 2009, AOAC (947.05)	0.1 to 1 % 1 to 3 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	21 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Total Ash		IS 1165 :2002, RA 2009, IS 14433: 2007 RA 2012, IS 1479(Part 2) :1961, AOAC (930.30, 945.46, 935.42):19 th Ed 2012, GAFTA 2003, Method 12.0	0.1 % to 8 %
	Acid Insoluble Ash		IS 14433: 2007 RA 2012, GAFTA 2003, Method 13.0	0.01 % to 2.0 %
	Milk Fat/Fat		IS 3507:1966, RA 2009, AOAC (938.06) : 19 th Ed 2012, IS 12758:1989, IS 2785:1979, RA 2011, AOAC (933.05, 974.09) : 19 th Ed 2012, IS 10484:1983, IS 1656 : 2007 , RA 2012, IS 3509:1966, RA 2009, AOAC (995.19) : 19 th Ed 2012, IS 2802:1964, RA 2011, AOAC (952.06) : 19 th Ed 2012, IS 11721:2005, RA 2010, 1479 (Part 2):1960, RA 2009, AOAC (905.02, 989.05, 932.06) : 19 th Ed 2012, IS 1224(Part 2):1977, RA 2009, AOAC (920.111) : 19 th Ed 2012	0.1 to 5 % 5 to 50%
	Milk solids not fat		IS 1479 (Part 1):1960, RA 2009, AOAC (990.21) : 19 th Ed 2012, By calculation	0.1 to 1% 1 to 15%
	Added Starch		IS 1479(Part 1):1960, RA 2009	Qualitative (Present/Absent)

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	22 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Insolubility index	IS 12759:1989	0.1 to 5.0ml/100g
		Solubility index	IS 14433:2007	90 to 99%
		Salt as NaCl	IS 2785:1979, RA 2011, IS 3509:1966, IS 3507:1966	0.1 to 5%
		Sugar/Sucrose	IS 1479(Part 2):1960, RA 2009	1 to 20% 20 to 50 %
		Added Sugar qualitative	IS 1166:1986, RA 2009, IS 1479(Part 1):1960, RA 2009	Qualitative (Present/Absent)
		Total Dietary Fibre	AOAC (985.29) : 19 th Ed 2012	0.5 to 5.0.%
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6.0 to 10.0 mg/100g 10 to 50 mg/100g 50 to 150 mg/100g
		Saturated Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 80%
		Monounsaturated Fatty Acids (MUFA)	AOAC (996.06) : 19 th Ed 2012	
		Polyunsaturated Fatty Acids (PUFA)	AOAC (996.06) : 19 th Ed 2012	
		<i>trans</i> Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 80%
		Carbohydrate	IS 1656: 2007, RA 2012	5 to 80%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Lactose	IS 1479(Part 2):1960, RA 2009	5 to 20 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	23 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Melamine	Validated In house method EL/SOP/518, Issue No. 01, Dt. 30.07.2010, based on application note of Metron	1 to 5 5 to 20 mg/kg and above
		Added Synthetic colour	DGHS 2005 : Manual 8 clause 4.1,4.2	Qualitative (Present/Absent)
4.	Milk and Dairy Products Ghee	Refractive Index	Mtd. 6 of IS3508:1966,RA 2009	1.3 to 1.8
		Titre	Mtd. 7 of IS 3508:1966, RA 2009	0 to 40°C
		Melting Point (Slip point)	Mtd. 8 of IS 3508:1966, RA 2009	10 to 40°C
		Insoluble impurities	Mtd. 10 of IS 3508:1966,RA2009	0 to 5%
		Acidity as oleic acid/FFA/Acid value	Mtd. 11 of IS 3508:1966,RA2009	0.01 to 0.5%
		Reichert- Meissl value	Mtd. 12 of IS 3508:1966,RA2009	10 to 35
		Polenske value	Mtd. 12 of IS 3508:1966,RA2009	1 to 10
		Saponification value	Mtd. 13 of IS 3508:1966,RA2009	2 to 300
		Iodine value	Mtd. 14 of IS 3508:1966,RA2009	0.5 to 200
		Unsaponifiable matter	Mtd. 15 of IS 3508:1966,RA2009	0.1 to 1 % 1 to 15%
		Baudouin test	Mtd. 21 of IS 3508:1966,RA2009	Qualitative (Present/Absent)

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	24 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Peroxide value	Mtd. 22 of IS 3508:1966,RA2009	0 to 2 meq/kg 2 to 20 meq/kg
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	100 to 250 mg /100g
5.	Food Grains, Pulses, Cereals & by products, Wheat, Rice, Chana, Moong, Rajma, Atta, Maida, Besan, Barley, Oats, Watana-Black & Green& White, Masoor, rawa, Lapshi, Dal, Urd, Tur, Masoor, Chana, barley flour, corn flour, corn, maize starch	Moisture	IS 1155:1968, AOAC (925.10) : 19 th Ed 2012, IS 1009: 1979, IS 4333(Part 2):2002, IS 1485:1993, GAFTA 2003, (Method 2.1), D.G.H.S Manual No.3, 2005(2.0,8.2), IS 1158:1973	1 to 5 % 5 to 25%
		Uric acid	IS 4333(Part 5):1970 DGHS 2005 : Man 3 Clause3.0	1 to 100mg/kg
		Total ash	IS 1155:1968, AOAC (923.03) : 19 th Ed 2012, IS 1485:1993, IS 1009:1979, GAFTA 2003 (Method 12.0), D.G.H.S Manual No.3, 2005(8.3)	0.1 to 1% 1 to 10%
		Acid insoluble ash	IS 1155:1968, IS 1485:1993, IS 1009:1979, GAFTA 2003 (Method 13.0), D.G.H.S Manual No.3, 2005(8.4)	0.01 to 0.1% 0.1 to 5%
		Total fat	GAFTA 2003, Method (3.0), AOAC (920.85) : 19 th Ed 2012	0.1 to 1% 1 to 25%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	25 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Protein N x 6.25		IS 7219:1973, RA 2010, GAFTA 2003, Method (4.0), AOAC (920.87, 984.13A) : 19 th Ed 2012, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	5 to 60 %
	Crude fibre		IS 1155:1968, AOAC (962.09) : 19 th Ed 2012, IS 1158:1973, GAFTA 2003, (Method 10.0), IS 4706 (Part 2):1978	1 to 25 %
	Dry Gluten content		IS 1155:1968, IS 1009:1979, D.G.H.S Manual No.3, 2005(8.5)	1 to 20%
	Alcoholic acidity as H ₂ SO ₄		IS 1155:1968, IS 1009:1979, IS 1158:1973, IS 12711:1989, D.G.H.S Manual No.3, 2005(8.6)	0.05 to 0.5% 0.5 to 1.0%
	Starch content		IS 4706(Part 2):1978	10 to 80%
	Detection of Kesari Dal		D.G.H.S Manual No.3, 2005(11.0)	Qualitative (Present/Absent)
	Carbohydrate		IS 1656: 2007, RA 2012	25 to 80%
	Energy		EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
	Cholesterol		AOAC 976.26, 994.10: 19 th Ed 2012	6.0 to 20 mg/100g

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	26 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids (PUFA)	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	0.01 to 100%
		<i>trans</i> Fat	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	0.01 to 100%
		Total Dietary Fiber	AOAC (985.29) : 19 th Ed 2012	1 to 20%
		Sugar	IS 6287:1985, RA 2010	0.5 to 10% and above
		Damaged/Slightly Damaged/Discolored Weevilled	IS 4333(Part 1):1996, RA 2012	0.01 to 25 %
		Extraneous matter		0.01 to 25 %
		Other edible grain		0.01 to 25 %
		Shrivelled / immature		0.01 to 25 %
		Broken		0.01 to 25 %
		Chalky		0.01 to 25 %
		Red grains / kernel with hulls		0.01 to 25 %
		Added synthetic colour	DGHS 2005 : Manual 8 clause 4.1,4.2	Qualitative (Present/Absent)

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	27 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Bakery Products Biscuits, Bread, Cakes, Cookies, Cookies Mix, Cake Mix nankatai, bread sticks, toast	Moisture	IS 1011:2002, RA 2009, IS 12711:1989, D.G.H.S Manual No.3, 2005(14.3,15.2), D.G.H.S Manual No.4, 2005(15.2)	0.1 to 15%
		Fat	IS 12711:1989, GAFTA 2003, Method 3.0, AOAC (922.06) : 19 th Ed 2012, D.G.H.S Manual No.4, 2005(15.3)	0.5 to 10% 10 to 50 %
		Acidity of extracted fat as oleic acid	IS 1011:2002, RA 2009, IS 12711:1989, D.G.H.S Manual No.3, 2005(14.5)	0.05 to 1% 1 to 3%
		Ash	IS 1011:2002, RA 2009, IS 12711:1989, AOAC (923.03) : 19 th Ed 2012	0.1 to 25%
		Acid insoluble ash	IS 1011:2002, RA 2009, IS 12711:1989, D.G.H.S Manual No.3, 2005(14.4,15.4), D.G.H.S Manual No.4, 2005(15.5)	0.01 to 0.05% 0.05 to 0.5 % 0.5 to 5%
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	5 to 80%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	10 to 80%
		Polyunsaturated Fatty Acids (PUFA)	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	10 to 80%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	28 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<i>trans</i> Fat	IS 548(Part 3):1976, RA 2000, AOAC 996.06: 19 th Ed 2012	0.01 to 5%
	Protein N x 6.25		IS 7219:1973, RA 2010, GAFTA 2003, Method 4.0, D.G.H.S Manual No.3, 2005(8.8), EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.5 to 5 % 5 to 25 %
	Carbohydrate		IS 1656: 2007, RA 2012	25 to 80%
	Energy		EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
	pH at 25°C		IS 12711:1989	2 to 10
	Cholesterol		AOAC 976.26, 994.10: 19 th Ed 2012	6.0 to 10.0 mg/100g 10 to 50 mg/100g
	Total Dietary fiber		AOAC (985.29) : 19 th Ed 2012	0.5 to 5 % 5 to 20%
	Sugar / Sucrose		IS 6287:1985, RA 2010 IS 1163:1992, RA 2009	1 to 10 % 10 to 60%
	Milk solids (on moisture & fat free basis)		IS 1163:1992, RA 2009,	5 to 15 %
	Alcoholic acidity as H ₂ SO ₄		IS 12711:1989, D.G.H.S Manual No.3, 2005(15.3)	0.05 to 0.5 %
	Salt as NaCl		IS 1797:1985 / D.G.H.S Manual No.3, 2005(16.2)	0.1 to 5%
	Added synthetic colour		DGHS 2005 : Manual 8 clause 4.1,4.2	Qualitative (Present/Absent)

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	29 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
7.	Honey & Honey Based Products	Specific gravity at 27°C	IS 4941:1994, RA 2008, D.G.H.S Manual No.4, 2005(6.3)	0.9500 to 1.4000
		Moisture	IS 4941:1994, RA 2008, AOAC (969.38) : 19 th Ed 2012, D.G.H.S Manual No.4, 2005(6.2)	13 to 25 %
		Total reducing sugar	IS 4941:1994, RA 2008, D.G.H.S Manual No.4, 2005(6.4)	60 to 80%
		Ash	IS 4941:1994, RA 2008, AOAC (920.181) : 19 th Ed 2012, D.G.H.S Manual No.4, 2005(6.7)	0.1 to 2%
		Acidity as formic acid	IS 4941:1994, RA 2008, AOAC (962.19) : 19 th Ed 2012, D.G.H.S Manual No.4, 2005(6.8)	0.1 to 0.5%
		Fructose Glucose ratio	IS 4941:1994, RA 2008, D.G.H.S Manual No.4, 2005(6.5)	0.9 to 1.8
		Fiehes test	IS 4941:1994, RA 2008, D.G.H.S Manual No.4, 2005(6.6.1)	Qualitative
		Aniline chloride test	D.G.H.S Manual No.4, 2005(6.6.2)	Qualitative
		Sucrose	IS 4941:1994, RA 2008, AOAC (920.184) : 19 th Ed 2012, D.G.H.S Manual No.4, 2005(6.4.4)	1 to 7%
		Carbohydrate	IS 1656:2007, RA 2012	30 to 80 %
		Fat	IS 6287:1985, RA 2010	0.1 to 1% 1 to 5%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	30 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Protein N x 6.25	GAFTA 2003, Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014, AOAC (962.18) : 19 th Ed 2012	0.5 to 10.0 %
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Determination of acid Insoluble ash	GAFTA 2003 (Method 13.0), IS 6287:1985	0.01 to 0.1% 0.1 to 1 %
		Hydroxy Methyl Furfural	IS 4941:1994, RA 2008 Annexure F, AOAC (980.23) : 19 th Ed 2012	30 to 100 mg/kg
8.	Spices & Condiments Whole/ Powder- Caraway, Cardamom, Chillies, Cinnamon, Cassia, Cloves, Coriander, Cumin, Kalonji, Fennel, Fenugreek, Dry ginger, Mace, Mustard, Nutmeg, black pepper, Saffron, turmeric, Saunf, white pepper, dehydrated onion, Asafoetida), (Whole-Poppy seeds, garlic,	Moisture	IS 1797:1985, IS 7807:1975, IS 5453:1966, AOAC (986.21) : 19 th Ed 2012, D.G.H.S Manual No.10, 2005(3.0)	1 to 50%
		Total ash	IS 1797:1985, IS 7807:1975, IS 5453:1966, AOAC (941.12) : 19 th Ed 2012, D.G.H.S Manual No.10, 2005(4.0)	0.1 to 15%
		Acid insoluble ash	IS 1797:1985, IS 7807:1975, IS 5453:1966, D.G.H.S Manual No.10, 2005(5.0)	0.02 to 3%
		Water insoluble ash	IS 1797:1985	0.1 to 3%
		Peroxide value of extracted fat	IS 548(Part 1):1964	0 to 2 meq/Kg 2 to 20 meq/Kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	31 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Celery, Ajwain, star anise) (Powdered- Curry, Masala Mix, Gravies, Pickles, Sambar masala, Pav bhaji masala, chat masala, chole masala, garam masala, biryani masala) Contd.	Crude Fibre	IS 1797:1985, IS 4706 (Part 2):1978	20 to 100meq/Kg 2 to 40%
		Volatile oil	IS 1797:1985, AOAC (962.17) : 19 th Ed 2012	0.1 to 20 %
		Non volatile ether extract	IS 1797:1985	2 to 30%
		Cold water soluble extract	IS 1797:1985	1.5 to 60 %
		Protein N x 6.25	GAFTA 2003, Method 4.0, IS 7219:1973, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	1 to 50%
		Starch	IS 4706 (Part 2):1978	5 to 80%
		Curcumin content	D.G.H.S Manual No. 10, 2005 (15.4)	0.5 to 5 %
		Presence of Chromate	IS 3576:1994	Qualitative (Present/Absent)
		Total fat	GAFTA,2003, Method 3.0	0.5 to 20%
		Carbohydrate	IS 1656:1997	10 to 75%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 25 mg/100g
		Total Dietary Fiber	AOAC (985.29) : 19 th Ed 2012	1 to 40%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	32 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salt as NaCl	IS 1797:1985 / D.G.H.S. Lab Manual No. 10, 2005, IS 4706 (Part 2):1978	0.1 to 20 %
		Saturated Fat	AOAC (996.06) : 19 th Ed 2012	10 to 80%
		Monounsaturated Fatty Acids (MUFA)	AOAC (996.06) : 19 th Ed 2012	10 to 80%
		Polyunsaturated Fatty Acids (PUFA)	AOAC (996.06) : 19 th Ed 2012	10 to 80%
		<i>trans</i> Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 5%
		Capsacainoids	AOAC (995.03) : 19 th Ed 2012	750 to 2000, 2000 to 5000 5000 to 10000 10000 to 65000 SHU, 65000 SHU and above
		Extraneous matter	D.G.H.S Manual No. 10, 2005 (2.0)	Qualitative
		Insect damage matter	D.G.H.S Manual No. 3, 2005 (1.1.2.1)	Qualitative
		Empty and malformed capsules by count (cardamom)	EL/SOP/565, Issue No. 01, Dt. 10.10.2013	Qualitative
		Immature and shriveled capsules		Qualitative
		Light seed		Qualitative
		Unripe and marked fruit (Chilli)		Qualitative

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	33 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Broken fruit, seed and fragment	EL/SOP/565, Issue No. 01, Dt. 10.10.2013	Qualitative
		Tendrils, mother clove		Qualitative
		Khokar clove		Qualitative
		Headless cloves		Qualitative
		Split fruit (coriander)		Qualitative
		Damaged discolored fruit	EL/SOP/565, Issue No. 01, Dt. 10.10.2013	Qualitative (Present/Absent)
		Defective seed (fennel)		Qualitative
		Edible seed other than fennel seed		Qualitative
		Light berries (black pepper)		Qualitative
		Pin head or broken berries		Qualitative
		Defective rhizome (turmeric)		Qualitative
		Floral waste	IS 5453:1996, RA 2012	Qualitative
		Colour extractables	AOAC 971.26: 19 th Ed 2012	50 to 200 ASTA Colour Unit
		Sudan Dyes (I, II, III, IV)	In house validated method EL/SOP/531, Issue No. 01, Dt. 02.09.2012, Based on DGHS Manual	2 to 100mg/kg
		Added synthetic colour	DGHS 2005 : Man. 8 clause 4.1,4.2	Qualitative (Present/Absent)

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	34 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
9.	Fruits and Vegetable products, Fruit Juice, Fruit pulp, Puree, Chutney/ Culinary paste, Sauces, Ketchups, Ready to eat vegetables, Canned fruit & vegetables, Dehydrated, Instant drink powder, Jam, Jellies, pickles, vegetable soup powders, Candied crystalized and glazed, murabba, tooty fruity, thermally processed fruits, vegetables, curried, vegetables, Nectar, ready to serve beverages, squashes, crushes, sharbat, Syrups, Marmalades)	Moisture	AOAC (934.06) : 19 th Ed 2012, D.G.H.S Manual No.5, 2005(4.0), IS 6287:1985	20 to 50% 50 to 100 %
		Total solids	AOAC (920.151), D.G.H.S Manual No.5, 2005(2.1)	10 to 50% 50 to 80%
		Total Soluble solids	IS 13815:2010, AOAC (932.12, 976.20, 983.17) : 19 th Ed 2012 D.G.H.S Manual No.5, 2005(1.6,2.2,2.12)	5 to 50 % 50 to 85 %
		Acidity of cut out syrup / Total acidity	IS 2860:1964, RA 2008 AOAC (942.15) : 19 th Ed 2012, D.G.H.S Manual No.5, 2005(2.4)	0.1 to 5%
		Added sugars	AOAC (925.35, 923.09) : 19 th Ed 2012, D.G.H.S Manual No.5, 2005(2.6), IS 6287:1985	1 to 50 %
		Sodium chloride in Brine	IS 2860:1964, RA 2008, D.G.H.S Manual No.5, 2005(1.7)	0.25 to 20%
		pH at 25°C	IS 2860:1964, RA 2008/ D.G.H.S Manual No.5, 2005(2.3)	1.0 to 14.0
		Total ash	D.G.H.S Manual No.5, 2005(5.3), IS 6287:1985, AOAC (940.26) : 19 th Ed 2012	0.1 to 25%
		Acid insoluble ash	D.G.H.S Manual No.5, 2005(5.3), IS 6287:1985	0.01 to 2%
		Carbohydrate	IS 1656: 2007, RA 2012	2 to 80%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	35 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 10mg/100g
		Saturated Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids (PUFA)	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		<i>trans</i> Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Total Dietary Fibres	AOAC (985.29) : 19 th Ed 2012	0.5 to 5%
		Protein N x 6.25	IS 7219:1973, RA 2010, IS 6287:1985, RA 2010, GAFTA 2003, Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.1 to 5 % 5 to 20% 20 to 50%
		Fat	IS 6287:1985, RA 2010, GAFTA,2003,Method 3.0	0.05 to 5% 5 to 20%
		Salt	IS 1797:1985, IS 4706 (Part 2):1978, D.G.H.S Manual No.5, 2005(1.7)	0 to 10%
		Drained weight	D.G.H.S Manual No.5, 2005(1.4)	20 to 80%
		Sulphur dioxide	D.G.H.S Manual No.8, 2005(17.7), AOAC 990.28	10 to 2000mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	36 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Benzoic Acid	D.G.H.S Manual No.8, 2005(1.2.2)	5 to 1000mg/kg
		Water activity	EL/SOP/530, Issue No. 01, Dt. 25.02.2011	0.1 to 1 aw
		Added synthetic colour	DGHS 2005 : Manual to 8 clause 4.1, 4.2	Qualitative (Present/Absent)
10.	Oils, fats & related products, Coconut, Ground nut, Sesame, Sunflower, Olive, Mustard, soyabean, olive, palmolein, palm, cotton seed, Safflower, Maize, Almond, Palm kernel, Rice bran oil, Edible fats, Margarine, Fat spread) contd.	Moisture & volatile matter	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(3.0)	0.01 to 5%
		Free fatty acid	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(11.0)	0.01 to 6%
		Acid value	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(11.0)	0.2 to 200
		Saponification value	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(9.0)	170 to 300
		Iodine value	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(12.0)	7.5 to 150
		Specific gravity	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(4.0)	0.8000 to 1.2000
		Refractive index	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(5.0)	1.3000 to 1.8000
		Ash	GAFTA 2003, method 12.0	0.01 to 10%
		Unsaponifiable matter	IS 548(Part 1):1964, D.G.H.S Manual No.2, 2005(10.0)	0.1 to 1 % 1 to 15%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	37 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Peroxide value	IS 548(Part 1):1964,	0 to 2 meq/kKg 2 to 20 meq/ kg 20 to 100 meq/ kg
		Colour By Lovibond Tintometer	IS 548(Part 1):1964,	Red 0.1 to 70.0 Yellow 0.1 to 70.0 Blue 0.1 to 40.0 Neutral 0.1 to 3.0
		Antioxidants (TBHQ, BHA, BHT)	AOAC (983.15) : 19 th Ed 2012, D.G.H.S Manual No.8, 2005(5.2.4)	2.5 to 100 mg/kg 100 to 300 mg/kg
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 30, 30.0 to 100.0 mg/100g
		Saturated Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	AOAC (996.06) : 19 th Ed 2012	
		Polyunsaturated Fatty Acids (PUFA)	AOAC (996.06) : 19 th Ed 2012	
		<i>trans</i> Fat	AOAC (996.06) : 19 th Ed 2012	
		Melting point	D.G.H.S Manual No.2, 2005(8.0)	25 to 40°C
		Test for Argemon oil	D.G.H.S Manual No.2, 2005(30.0)	Qualitative test
		Belier's test	D.G.H.S Manual No.2, 2005(14.0)	10 to 50°C

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	38 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
11.	Starch and starchy products custard powder, corn flakes, ready to eat products, noodles, pasta contd.	Moisture	IS 4706 (Part 2):1978	0.1 to 20%
		Ash	IS 4706 (Part 2):1978	0.1 to 10%
		Acid insoluble ash	IS 4706 (Part 2):1978	0.01 to 2%
		Protein N x 6.25	IS 4706 (Part 2):1978, EL/SOP/549	1 to 60 %
		Crude fibre	IS 4706 (Part 2):1978	0.1 to 15%
		pH of aqueous extract	IS 4706 (Part 2):1978	2.0 to 10.0
		Alcoholic acidity	IS 4706 (Part 2):1978	0.01 to 1% 1 to 5%
		Starch content	IS 4706 (Part 2):1978	30 to 95%
		Total fat	GAFTA 2003,Method 3.0	1 to 10%
		Carbohydrate	IS 1656: 2007, RA 2012	70 to 95%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 10mg/100g
		Saturated Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids (PUFA)	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	39 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		trans Fat	AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Total Dietary fiber	AOAC (985.29) : 19 th Ed 2012	0.2 to 10%
		Salt	IS 4706(Part 2):1978	0 to 10%
		Sulphated ash	IS 4706(Part 2):1978	0.1 to 10%
		Added synthetic colour	DGHS 2005 : Manual No. 8 clause 4.1,4.2	Qualitative (Present/Absent)
12.	Tea and tea products, Tea masala, Herbal Tea	Moisture	IS 3077:1992	1 to 20%
		Ash	IS 13854:1994	0.1 to 10 %
		Water soluble ash/ water insoluble ash	IS 13855:1993	45 to 100% of total ash
		Ash insoluble in HCL	IS 13857:1993	2% max
		Aqueous Extract	IS 3077:1992	5 to 40 %
		Alkalinity of soluble ash	IS 13856:1993	1 to 10 %
		Crude Fibre	IS 1155:1968, GAFTA method 10.0, IS 4706(Part 2):1978	1 to 20 %
		Added synthetic colour	DGHS 2005 : Manual No. 8 clause 4.1, 4.2	Present/Absent

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	40 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
13.	Coffee, cocoa and by products, Chicory mix, chocolates, Cocoa powder	Moisture	IS 3077:1992, IS 1164: 1986, D.G.H.S Manual No. 4, 2005(1.2,4.2), IS 1163:1992	0.1 to 5% 5 to 20%
		Ash	IS 13854:1994, IS 1164: 1986, IS 3077:1992, IS 1163:1992, D.G.H.S Manual No.4, 2005(1.3), IS 4706(Part 2):1978	1 to 10 %
		Water soluble ash	IS 3077:1992, D.G.H.S Manual No.4, 2005(1.4)	65 to 100 % of total ash
		Ash insoluble in HCl	IS 3077:1992, IS 1164: 1986, IS 1163:1992, D.G.H.S Manual No.4, 2005(1.5), IS 4706(Part 2):1978	0 to 2%
		Aqueous Extract / Water soluble matter	IS 3077:1992, D.G.H.S Manual No.4, 2005(1.7)	5 to 35 %
		Alkalinity of soluble ash	IS 3077:1992, IS 1164: 1986, D.G.H.S Manual No.4, 2005(1.6)	1 to 10 ml
		Crude Fibre	IS 1155:1968, IS 1164: 1986, D.G.H.S Manual No.4, 2005(5.8), GAFTA method 10.0, IS 4706(Part 2):1978	1 to 20 %
		Caffeine content	IS 3077:1992, , D.G.H.S Manual No.4, 2005(1.8A)	0.1 to 5 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	41 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Coca butter/Fat content/Pet. Ether extract	IS 1164: 1986, IS 1163:1992, IS 3077:1992, D.G.H.S Manual No. 4, 2005(4.3), IS 4706(Part 2):1978	5 to 35 %
		Added synthetic colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Present/Absent
14.	Snacks, Convenience Products	Moisture	IS 15271: 2003, GAFTA, 2003 Method 2.1	0.1 to 80%
	Namkeen-farsan, Instant mix like idli, Dosa, Dhokala, Jalebi, Gulabjam, Breakfast cereals, Chapati, Paratha, Khakara, Bhajani pith, Thalipith bhajani, Cheese balls, chikki, pickles, salted/Masala nuts)	Ash	IS 15271: 2003, GAFTA,2003 Method 12.0	0.1 to 25%
		Acid Insoluble ash	IS 15271: 2003, GAFTA,2003 Method 13.0	0.01 to 5%
		Fat	IS 15271: 2003, GAFTA,2003 Method 3.0	0.1 to 50%
		Protein	IS 7219:1973, RA 2010, GAFTA,2003 Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.1 to 5 %
		N x 6.25		5 to 50%
		Carbohydrate	IS 1656: 2007, RA 2012	5 to 80%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Sugar	IS 6287:1985, RA 2010	1 to 50%
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 25 mg/100g

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	42 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids(PUFA)	IS 548(Part 3):1976,RA 2000,AOAC(996.0) : 19 th Ed 2012	0.01 to 100%
		trans Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Peroxide value of extracted fat	IS 548(Part 1):1964, IS 15271:2003	0 to 50 meq/kg
		Acid value/ Acidity of extracted fat	IS 15271:2003, D.G.H.S Manual No.3, 2005(14.4	0.01 to 50%
		Salt as NaCl	IS 4706(Part 2):1978	1 to 5%
		Total Dietary fiber	AOAC (985.29) : 19 th Ed 2012	0.2 to 2% 2 to 15%
		Added synthetic colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Qualitative (Present/Absent)
15.	Oil seeds and by products (Sesame seeds, Mustard)	Damaged seeds	IS 3579:1966	0.1 to 15 %
		Slightly damaged seeds		0.1 to 15 %
		Shivelled immature dark seeds		0.1 to 15 %
		Splut or cracked seeds		0.1 to 15 %
		Number of kernels per 25 g	IS 4427:1967	Qualitative

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	43 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Impurities	IS 3579:1966	0.1 to 25 %
		Moisture		15 %
		Oil content		10 to 65 %
		Acid value of extracted fat as oleic acid/ FFA		0.5 to 20 mg KOH /g
		Ash	GAFTA 2003 (Method 12.0)	0.1 to 15%
		Acid Insoluble ash	GAFTA 2003 (Method 13.0)	0.01 to 5 %
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids (PUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		trans Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Protein N x 6.25	IS 7219:1973/ GAFTA 2003 Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0 to 20%
		Carbohydrate	IS 1656:1997	5 to 50 %
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Total Dietary Fiber	AOAC (985.29)	0.2 to 15%
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 50 mg/100g 50 to 150 mg %
		Salt as NaCl	IS 1797:1985	0.1 to 10 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	44 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
16.	Nuts & Nuts products (Ground nut, Cashew, Pista, Almonds, chikkies)	Moisture	AOAC (925.40) : 19 th Ed 2012	1 to 25%
		Fat	GAFTA,2003 Method 3.0, AOAC (948.22) : 19 th Ed 2012 , IS 3579:1966	1.0 to 75%
		Protein N x 6.25	GAFTA,2003 Method 4.0 AOAC (950.48) : 19 th Ed 2012, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	1.0 to 25%
		Carbohydrate	IS 1656: 2007, RA 2012	5 to 80%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Crude fiber	IS 1797:1985, IS 1155:1968, AOAC (935.53) : 19 th Ed 2012, D.G.H.S Manual 2005, GAFTA method 10.0, IS 4706(Part 2):1978	0.1 to 30%
		Acidity of extracted fat as oleic acid	IS 3579:1966, IS 548 (Part 1):1964, D.G.H.S Manual No.3, 2005(14.4)	0.01 to 50%
		Peroxide value	IS 548(Part 1):1964	0 to 50 meq /kg
		Sugar	AOAC (950.50, 950.51) : 19 th Ed 2012	0.1 to 60%
		Salt as NaCl	AOAC (950.52) : 19 th Ed 2012	0.1- 25%
		Ash	GAFTA 2003 (Method 12.0), AOAC (950.49)	0.1 to 15%
		Acid insoluble ash	GAFTA 2003 (Method 13.0)	0.01 to 5 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	45 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
17.	Meat & Meat products (Raw meat-Chicken, Ready to eat)	Moisture	IS 5960(Part 5):2001, AOAC (950.46) : 19 th Ed 2012	20 to 80%
		Ash	IS 5960(Part 2):2000, AOAC (920.153) : 19 th Ed 2012	0.1 to 25%
		Acid Insoluble Ash	IS 4706(Part 2):1978, GAFTA,2003 Method 13.0	0.01 to 5%
		Total Fat	IS 5960(Part 3):1970, D.G.H.S Manual No.6, 2005(2.0)	0.1 to 50 %
		Free fat	IS 5960(Part4):1997	0.1 to 5 % 5 to 30 %
		Protein N x 6.25	IS 5960(Part 1):1996, AOAC (928.08) : 19 th Ed 2012, GAFTA 2003, Method 4.0, D.G.H.S Manual No.6, 2005(2.2), EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.1 to 50%
		Carbohydrate	IS 1656: 2007, RA 2012	1 to 80%
		Salt as NaCl	IS 5960(Part 6 Sec. 1):1997, AOAC (935.47) : 19 th Ed 2012	1 to 10 %
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Cholesterol	AOAC 976.26, 994.10	6 to 100 mg/100g
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	46 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Polyunsaturated Fatty Acids (PUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		<i>trans</i> Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Total Dietary Fiber	AOAC (985.29) : 19 th Ed 2012	0.5 to 10%
		Added synthetic colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Qualitative (Present/Absent)
18.	Fish & Fishery products (Fish fillets, Prawns, Pomfret, ready to eat fish products)	Moisture	IS 9808:1981, AOAC (952.08) : 19 th Ed 2012, D.G.H.S Manual No.6, 2005(2.2),	1 to 80%
		Ash	IS 9808:1981, AOAC (938.08) : 19 th Ed 2012	0.1 to 25%
		Acid Insoluble Ash	IS 4706(Part 2):1978, IS 9808:1981, GAFTA,2003 Method 13.0 D.G.H.S Manual No.6, 2005(2.4)	0.01 to 5%
		Total Fat	IS 9808:1981, AOAC (948.15) : 19 th Ed 2012, GAFTA 2003(3.0)	0.1 to 50%
		Protein N x 6.25	IS 5960(Part 1):1996, IS 9808: 1981, AOAC (940.25) : 19 th Ed 2012, GAFTA 2003, Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.1 to 5 % 5 to 50%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	47 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Carbohydrate	IS 1656: 2007, RA 2012	1 to 80%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6.0 to 100 mg/100g
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids (PUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		<i>trans</i> Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Total Dietary Fiber	AOAC (985.29) : 19 th Ed 2012	0.1 to 10%
		Salt as NaCl	AOAC (937.09) : 19 th Ed 2012	0.1 to 20%
		Total Volatile Base Nitrogen	D.G.H.S Manual No.6, 2005(1.2)	5 to 100mg/100g
		Added synthetic colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Qualitative (Present/Absent)

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	48 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
19.	Metals & Metals contaminants (Milk products, Pulses, Cereals & Bakery & Confectionery, Spices, Fruit & Vegetable products, Starch & Starchy Products, Oil, Snacks, Convenience Products, Meat & Meat Products, Fruit Juices & concentrates, Food ingredients, Essential oils, infant food, Food supplement, Honey, Fish & Fishery products)	Sodium	AOAC (966.16, 984.27, 985.35, 985.01) : 19 th Ed 2012, EL/SOP/534, Issue No. 01, Dt. 01.06.2012	0.025 to 50mg/kg 50 to 1000 mg/kg
		Potassium		0.025 to 50mg/kg 50 to 1000 mg/kg
		Calcium		0.025 to 50mg/kg 50 to 1000 mg/kg
		Iron		0.025 to 50mg/kg 50 to 1000 mg/kg
		Magnesium	AOAC (966.16, 984.27, 985.35, 986.15, 999.10, 999.11, 986.15, 971.21) : 19 th Ed 2012, EL/SOP/534, Issue No. 01, Dt. 01.06.2012	0.025 to 50mg/kg 50 to 1000 mg/kg
		Manganese		0.025 to 50mg/kg 50 to 1000 mg/kg
		Zinc		0.025 to 50mg/kg 50 to 1000mg/kg
		Copper		0.025 to 50mg/kg 50 to 1000mg/kg
		Selenium		0.025 to 50mg/kg 50 to 1000mg/kg
		Molybdenum		0.025 to 50mg/kg 50 to 1000mg/kg
		Arsenic		0.025 to 50mg/kg 50 to 1000mg/kg
		Mercury		0.025 to 50mg/kg 50 to 1000mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	49 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium		0.025 to 50mg/kg 50 to 1000mg/kg
		Lead		0.025 to 50mg/kg 50 to 1000mg/kg
		Chromium		0.025 to 50mg/kg 50 to 1000mg/kg
		Nickel	AOAC (966.16, 985.35) : 19 th Ed 2012, EL/SOP/534,	0.25 to 50 mg/kg
		Tin	Issue No. 01, Dt. 01.06.2012	0.25 to 50 mg/kg
		Vanadium		0.25 to 50 mg/kg
		Boron		0.25 to 50 mg/kg
		Phosphorus	AOAC 995.11, 935.45, 970.39: 19 th Ed 2012	0.25 to 500 mg/100g
20.	Animal Feeds (Cotton seed, Oil cake, Fish meal)	Moisture	IS 7874(Part 1):1999, GAFTA 2003, Method 2.1,	1 to 50%
		Ash	IS 7874(Part 1):1999, GAFTA 2003, Method 12	0.1 25 %
		Acid insoluble ash	IS 7874(Part 1):1999, GAFTA 2003, Method 13	0.01 to 5 %
		Crude fat	IS 7874(Part 1):1999, GAFTA 2003, Method 3	0.1 to 50 %
		Crude protein	IS 7874(Part 1):1999, GAFTA 2003, Method 4, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.1 to 50 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	50 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Crude fibre	IS 7874(Part 1):1999, GAFTA 2003, Method 10, IS 4706 (Part 2):1978	0.1 to 30 %
		Sodium	IS 7874(Part 1):1999, AOAC (984.27, 985.35), EL/SOP/534, Issue No. 01, Dt. 01.06.2012	0.25 to 1000 mg/kg
		Calcium		0.25 to 1000 mg/kg
		Potassium		0.25 to 1000 mg/kg
		Iron		0.25 to 1000 mg/kg
21.	Fruit Juices and concentrates (Fruit pulp, Juice, Instant drink powder)	Moisture	AOAC (934.06) : 19 th Ed 2012, IS 6287:1985	5 to 20% 20 to 99%
		Total solids	AOAC (920.151) : 19 th Ed 2012, D.G.H.S Manual No.5, 2005(3.5), By calculation	10 to 25 % 25 to 95%
		Soluble solids	IS 13815:1993, D.G.H.S Manual No.5, 2005(3.1)	5 to 80%
		Acidity	IS 2860:1964, RA 2008, AOAC (942.15) : 19 th Ed 2012, D.G.H.S Manual No.5, 2005(2.4)	0.1 to 5%
		Added sugars	AOAC (925.35) : 19 th Ed 2012, D.G.H.S Manual No.5, 2005(2.6), IS 6287:1985	1 to 10% 10 to 50 %
		Sodium chloride (Brine)	IS 2860:1964, RA 2008, D.G.H.S Manual No.5, 2005(1.7)	0.25 to 20%
		pH at 25°C	IS 2860:1964, RA 2008	1.0 to 10.0

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	51 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total ash	IS 13846:1993, D.G.H.S Manual No.5, 2005 (2.10.7)	0.1 to 2% 2 to 25%
		Acid insoluble ash	IS 13846:1993	0.01 to 2%
		Carbohydrate	IS 1656: 2007, RA 2012	2 to 20 % 20 to 80%
		Protein N x 6.25	IS 7219:1973, RA 2010, IS 6287:1985, RA 2010, GAFTA 2003, Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.05 to 5 %
		Fat	IS 6287:1985, RA 2010	0.05 to 5%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Added synthetic colour	DGHS 2005 : Manual No. 8clause 4.1,4.2	Qualitative (Present/Absent)
22.	Sugar and confectionary products (Sugar, Chikkies, Jam, Jellies, Confectionery, Chywanprash, Jaggary, Chocolate, Cocoa products)	Moisture	IS 6287:1985, RA 2010, D.G.H.S Manual No.4, 2005(7.2), IS 1163:1992, RA 2009, IS 1164:1986, RA 2007	0.5 to 5 % 5 to 30%
		Ash	IS 6287:1985, RA 2010, D.G.H.S Manual No.4, 2005(7.3), IS 1163:1992, RA 2009, IS 1164:1986, RA 2007	0.1 to 10%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	52 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Acid insoluble ash	IS 6287:1985, RA 2010, D.G.H.S Manual No.4, 2005(9.4), IS 1163:1992, RA 2009, IS 1164:1986, RA 2007	0.01 to 5%
		Fat	IS 6287:1985, RA 2010, IS 1163:1992, RA 2009, IS 1164:1986, RA 2007	0.1 to 50%
		Protein N x 6.25	IS 6287:1985, RA 2010/ GAFTA 2003, Method 4.0, EL/SOP/549, Issue No. 01, Dt. 01.01.2014	0.5 to 5% 5 to 20%
		Carbohydrates	By calculation / IS 1656: 2007, RA 2012	2 to 90%
		Sucrose	IS 6287:1985, RA 2010, D.G.H.S Manual No.4, 2005(7.4), IS 1163:1992, RA 2009	Min 1.0 to 10 % 10 to 90 %
		Total Dietary Fibre	AOAC (985.29) : 19 th Ed 2012	0.1 to 5%
		Cholesterol	AOAC 976.26, 994.10: 19 th Ed 2012	6 to 10mg/100g
		Saturated Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Monounsaturated Fatty Acids (MUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Polyunsaturated Fatty Acids (PUFA)	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	53 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<i>trans</i> Fat	IS 548(Part 3):1976, RA 2000, AOAC (996.06) : 19 th Ed 2012	0.01 to 100%
		Energy	EL/SOP/509, Issue No. 01, Dt. 01.11.2008	By Calculation
		Reducing sugar	IS 6287:1985, RA 2010, D.G.H.S Manual No.4, 2005(6.4)	0.5 to 70%
		Lactose	IS 6287:1985, RA 2010	0.5 to 20%
		Brix (Total soluble solids)	IS 13815:1993	5 to 80%
		Sulphated ash	IS 6287:1985, RA 2010, D.G.H.S Manual No.4, 2005(10.0)	0.1 to 1% 1 to 10%
		Acidity	D.G.H.S Manual No.4, 2005	0.1 to 5%
		Added colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Qualitative (Present/Absent)
23.	Beverages & Soft drinks (Pepsi, Miranda, Coke, Energy drinks)	pH at 25°C	IS 2860:1964, RA 2008	1 to 10
		Total soluble solids	AOAC (950.27) : 19 th Ed 2012 , D.G.H.S Manual No.5, 2005(3.5), IS 13815: 2010	0.1 to 2% 2 to 20 %
		Acidity	IS 13844:1998, D.G.H.S Manual No.5, 2005(2.4),	0.1 to 1% 1 to 10 %
		Sugar	IS 6287:1985, RA 2010, AOAC (923.09) : 19 th Ed 2012 , D.G.H.S Manual No.5, 2005(2.6)	0.5 to 50 %

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	54 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Caffeine	AOAC 962.13: 19 th Ed 2012	5 to 200 mg/100ml
		Added colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Qualitative (Present/Absent)
24.	Alcoholic Beverages (Beer, Wine, Whisky, Vodka, Rum, Gin, Champagne)	pH at 25°C	IS 3865:2001	1 to 10
		Specific Gravity at 20°C	IS 3506:1989	0.5002 to 1.5000
		Ethyl alcohol content	IS 3865:2001, IS 7585:1995, RA 2000, IS 3752:2005	1 to 10% 10 to 50 % 50 to 100 %
		Methyl alcohol content	IS 3865:2001, IS 3752:2005	500 to 5000 mg/100l
		Added colour	DGHS 2005 : Manual No. 8, clause 4.1,4.2	Present/Absent
25.	Nut & Nut products, Cereal products, Spices, Oils, Oil seeds, Animal feed, Tea, Food ingredients/ Food supplement, Honey, Fish & Fishery products	Mycotoxins Aflatoxins B1 B2 G1 G2	AOAC 990.33, 991.31: 19 th Ed 2012, Agilent application note In house validated method EL/SOP/529, Issue No. 01, Dt. 20.07.2012	1 to 1000 µg/kg 1 to 1000 µg/kg 1 to 1000 µg/kg 1 to 1000 µg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	55 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
26.	Milk and milk products	Mycotoxins Aflatoxin M1	AOAC (986.16)/ AOAC (2000.08) 19 th Ed 2012, Agilent application note method EL/SOP/523, Issue No. 01, Dt. 01.09.2012	0.5 to 1000 µg/kg
27.	Milk & Dairy products, Food Grains, Pulses, Cereals & by product, Bakery & Confectionery, Products, Honey & Honey, products, Spices & Condiments, Fruit & Vegetable products, Starch & Starchy Products, Snacks, Convenience Products, Meat & Meat Products, Fruit Juices & concentrates, Oil, Infant food, Food ingredients/ Food supplement	Vitamins Vitamin A	AOAC (974.29, 2001.13) : 19 th Ed 2012 IS 5886:1970	100 to 1000 IU 1000 to 5000 IU
		Vitamin B1	AOAC (942.23) : 19 th Ed 2012, IS 5398:1969	0.1 to 5.0 mg/100gm
		Vitamin B2	AOAC 970.65) : 19 th Ed 2012, IS 5399:1969	0.1 to 5 mg/100gm
		Vitamin B3	AOAC (961.14) : 19 th Ed 2012, IS 5400:1969	0.5 to 20 mg/100gm
		Vitamin B12	AOAC (2011.10) : 19 th Ed 2012	10 to 200 µg/100 gm
		Vitamin C	AOAC (985.33, 967.21) : 19 th Ed 2012, IS 5838:1970	0.1 to 10mg/100 gm 10 to 50 mg/100 gm 50 to 150mg/100 gm
		Vitamin E	In house validated method EL/SOP/519, Issue No. 01, Dt. 30.07.2010, AOAC 989.09 : 19 th Ed 2012	100 to 200 mg/kg 200 mg/kg and above

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	56 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
28.	Fruits and vegetable products, Fruits and fruit products, Vegetables and vegetable products, Cereals and Pulses Tomato, Brinjal, Onions Cabbage, Bhendi, Grape, Mango, Apple, Pears, Oranges, Plums Pomergranate, Rice, Wheat, Corn	Pesticide residues		
		Organochlorine Pesticides		
		Aldrin	In house validated method method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
		Dieldrin		0.01 to 5.0 mg/kg
		Chlordane trans		0.01 to 5.0 mg/kg
		Chlordane cis		0.01 to 5.0 mg/kg
		o,p DDT		0.01 to 5.0 mg/kg
		p,p DDT		0.01 to 5.0 mg/kg
		o,p DDE		0.01 to 5.0 mg/kg
		p,p DDE		0.01 to 5.0 mg/kg
		o,p DDD		0.01 to 5.0 mg/kg
		p,p DDD		0.01 to 5.0 mg/kg
		Endrin		0.01 to 5.0 mg/kg
		Methoxychlor		0.01 to 5.0 mg/kg
		Endosulphan I		0.01 to 5.0 mg/kg
		Endosulphan II		0.01 to 5.0 mg/kg
		Endosulphan sulphate		0.01 to 5.0 mg/kg
		Heptachlor		0.01 to 5.0 mg/kg
		Heptachlor epoxide		0.01 to 5.0 mg/kg
		Alpha HCH		0.01 to 5.0 mg/kg
		Beta HCH		0.01 to 5.0 mg/kg
		Gamma HCH		0.01 to 5.0 mg/kg
		Delta HCH		0.01 to 5.0 mg/kg
		Chlorthalonil		0.01 to 5.0 mg/kg
		Dicofol		0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	57 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
Organophosphorous Pesticides				
	Fenithrothion		In house validated method	0.01 to 5.0 mg/kg
	Parathion		EL/SOP/520, Issue No. 01, Dt.	0.01 to 5.0 mg/kg
	Parathion methyl		01.06.2010, based on AOAC	0.01 to 5.0 mg/kg
	Malathion		2007.01, TNO	0.01 to 5.0 mg/kg
	Phosphomidon			0.01 to 5.0 mg/kg
	Chlorfenvinphos			0.01 to 5.0 mg/kg
	Chlorpyriphos			0.01 to 5.0 mg/kg
	Ethion			0.01 to 5.0 mg/kg
	Phosalone			0.01 to 5.0 mg/kg
	Atrazine			0.01 to 5.0 mg/kg
	Fenthion			0.01 to 5.0 mg/kg
	Fenvalarate		In house validated method	0.01 to 5.0 mg/kg
	Phorate		EL/SOP/520, Issue No. 01, Dt.	0.01 to 5.0 mg/kg
	Phorate Sulphone		01.06.2010, based on AOAC	0.01 to 5.0 mg/kg
	Phorate Sulphoxide		2007.01, TNO	0.01 to 5.0 mg/kg
	Alachlor			0.01 to 5.0 mg/kg
	Profenophos			0.01 to 5.0 mg/kg
	Phenthoate			0.01 to 5.0 mg/kg
	4 - bromo - 2 chlorophenol			0.01 to 5.0 mg/kg
	Acephate			0.01 to 5.0 mg/kg
	Chlorpyrifos methyl			0.01 to 5.0 mg/kg
	Diazinon			0.01 to 5.0 mg/kg
	Dichlorvos			0.01 to 5.0 mg/kg
	Dimethoate			0.01 to 5.0 mg/kg
	Edifenphos			0.01 to 5.0 mg/kg
	Etrimfos			0.01 to 5.0 mg/kg
	Fenthion sulfoxide and sulfone			0.01 to 5.0 mg/kg
	Glufosinate ammonium			0.01 to 5.0 mg/kg
	Glyphosate			0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	58 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iprobenphos		0.01 to 5.0 mg/kg
		Malaxon		0.01 to 5.0 mg/kg
		Methamidophos		0.01 to 5.0 mg/kg
		Monocrotophos		0.01 to 5.0 mg/kg
		Omethoate		0.01 to 5.0 mg/kg
		Oxydemeton methyl		0.01 to 5.0 mg/kg
		Demeton S methyl sulfone		0.01 to 5.0 mg/kg
		Paraoxon methyl		0.01 to 5.0 mg/kg
		Pirimiphos methyl		0.01 to 5.0 mg/kg
		Propetamphos		0.01 to 5.0 mg/kg
		Quinalphos		0.01 to 5.0 mg/kg
		Temephos		0.01 to 5.0 mg/kg
		Thiometon		0.01 to 5.0 mg/kg
		Triazophos		0.01 to 5.0 mg/kg
		Propamocarb		0.01 to 5.0 mg/kg
		Triazine	In house validated method	
		Flufenzin	EL/SOP/520, Issue No. 01, Dt.	0.01 to 5.0 mg/kg
		Simazine	01.06.2010, based on AOAC	0.01 to 5.0 mg/kg
		Pyrimidine	2007.01, TNO	0.01 to 5.0 mg/kg
		Fenarimol		0.01 to 5.0 mg/kg
		Synthetic Pyrethroids		0.01 to 5.0 mg/kg
		Allethrin		0.01 to 5.0 mg/kg
		Bioallethrin		0.01 to 5.0 mg/kg
		Bifenthrin		0.01 to 5.0 mg/kg
		Cyfluthrin		0.01 to 5.0 mg/kg
		Cypermethrin		0.01 to 5.0 mg/kg
		Deltamethrin		0.01 to 5.0 mg/kg
		Ethofenprox		0.01 to 5.0 mg/kg
		Fenpropathin		0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	59 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Esfenvalerate		0.01 to 5.0 mg/kg
		Lambda cyhalothrin		0.01 to 5.0 mg/kg
		Permethrin I		0.01 to 5.0 mg/kg
		Permethrin II		0.01 to 5.0 mg/kg
		<i>tau</i> - Fluvalinate		0.01 to 5.0 mg/kg
		Transfluthrin		0.01 to 5.0 mg/kg
		Acycloaminoacid Fungicide		
		Benalaxyl		0.01 to 5.0 mg/kg
		Benalaxyl M		0.01 to 5.0 mg/kg
		Metalaxyl		0.01 to 5.0 mg/kg
		Metalaxyl M		0.01 to 5.0 mg/kg
		Oxycarboxin		0.01 to 5.0 mg/kg
		Propanil		0.01 to 5.0 mg/kg
		Carbamate		0.01 to 5.0 mg/kg
		Bendiocarb		0.01 to 5.0 mg/kg
		Benfuracarb		0.01 to 5.0 mg/kg
		Benomyl		0.01 to 5.0 mg/kg
		Carbaryl		0.01 to 5.0 mg/kg
		Carbofuran		0.01 to 5.0 mg/kg
		Carbosulfan		0.01 to 5.0 mg/kg
		Diazomet		0.01 to 5.0 mg/kg
		Fenobucarb	In house validated method	0.01 to 5.0 mg/kg
		Indoxacarb	EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
		Iprovalicarb		0.01 to 5.0 mg/kg
		Methomyl		0.01 to 5.0 mg/kg
		Propaxur		0.01 to 5.0 mg/kg
		Thiobencarb		0.01 to 5.0 mg/kg
		Thiodicarb		0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	60 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Triazoles			
	Bitertanol			0.01 to 5.0 mg/kg
	Difenconazole			0.01 to 5.0 mg/kg
	Flusilazole			0.01 to 5.0 mg/kg
	Hexaconazole			0.01 to 5.0 mg/kg
	Myclobutanil			0.01 to 5.0 mg/kg
	Paclobutrazole			0.01 to 5.0 mg/kg
	Penconazole			0.01 to 5.0 mg/kg
	Propiconazole			0.01 to 5.0 mg/kg
	Tebuconazole			0.01 to 5.0 mg/kg
	Tetraconazole			0.01 to 5.0 mg/kg
	Triadimefon			0.01 to 5.0 mg/kg
	Tridemol			0.01 to 5.0 mg/kg
	Cyazofamid			0.01 to 5.0 mg/kg
	Imidazole			
	Fenamidone			0.01 to 5.0 mg/kg
	Oxazole			
	Famoxadone			0.01 to 5.0 mg/kg
	Phthalamide			
	Captafol			0.01 to 5.0 mg/kg
	Captan			0.01 to 5.0 mg/kg
	Benzimidazole			
	Carbendazim			0.01 to 5.0 mg/kg
	Thophanate methyl			0.01 to 5.0 mg/kg
	Nicotinoids			
	Acetamiprid		In house validated method	0.01 to 5.0 mg/kg
	Clothianidin		EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
	Imidacloprid			0.01 to 5.0 mg/kg
	Thiocloprid			0.01 to 5.0 mg/kg
	Thiomethoxam			0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	61 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Dinitrophenol			
	Dinocap		In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on Journal of AOAC international vol. 93, No. 6, 2010	0.01 to 5.0 mg/kg
	Aliphatic nitrogen fungicide			
	Cymoxanil		In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC	0.01 to 5.0 mg/kg
	Morpholine			
	Dimethomorph		2007.01, TNO	0.01 to 5.0 mg/kg
	Tridemorph			0.01 to 5.0 mg/kg
	Substituted thiourea			
	Diafenthiuron			0.01 to 5.0 mg/kg
	Diuron			0.01 to 5.0 mg/kg
	Iodosulfuron methyl			0.01 to 5.0 mg/kg
	Isoproturon			0.01 to 5.0 mg/kg
	Linuron			0.01 to 5.0 mg/kg
	Lufenuron			0.01 to 5.0 mg/kg
	Pencycuron			0.01 to 5.0 mg/kg
	Benzoyl phenyl urea			
	Flufenoxuron			0.01 to 5.0 mg/kg
	Strobilurin			
	Azoxystrobin			0.01 to 5.0 mg/kg
	Kresoxim methyl			0.01 to 5.0 mg/kg
	Pyraclostrobin			0.01 to 5.0 mg/kg
	Trifloxystrobin			0.01 to 5.0 mg/kg
	Phenyl pyrazole			
	Chlorantraniliprole			0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	62 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Pyrazole		In house validated method	
	Fenpyroximate		EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
	Nitrophenyl ether			
	Oxyfluorfen			0.01 to 5.0 mg/kg
	Dinitroaniline			
	Pendimethalin			0.01 to 5.0 mg/kg
	Trifluralin			0.01 to 5.0 mg/kg
	Anilide/acetanilidine and chloracetanilidine			
	Butachlor			0.01 to 5.0 mg/kg
	Carboxin			0.01 to 5.0 mg/kg
	Flufenacet			0.01 to 5.0 mg/kg
	Metalochlor with S metalochlor			0.01 to 5.0 mg/kg
	Novaluron			0.01 to 5.0 mg/kg
	Other pesticides		In house validated method	
	1- Naphthyl acetic acid		EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on Journal of AOAC international vol. 94, No. 3, 2011, TNO	0.01 to 5.0 mg/kg
	2,4 D			0.01 to 5.0 mg/kg
	6 - Benzyl adenine			0.01 to 5.0 mg/kg
	Azardirachtin			0.01 to 5.0 mg/kg
	Chloramquat			0.01 to 5.0 mg/kg
	Homobrossinolide			0.01 to 5.0 mg/kg
	Diquat			0.01 to 5.0 mg/kg
	Ethephon			0.01 to 5.0 mg/kg
	Gibberilic acid			0.01 to 5.0 mg/kg
	Mepiquat			0.01 to 5.0 mg/kg
	Paraquat			0.01 to 5.0 mg/kg
	Uracil			0.01 to 5.0 mg/kg
	4 - CPA			0.01 to 5.0 mg/kg
	Fosetyl Al			1.0 to 100 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	63 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Hydrogen cyanamide	In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on Analytical letter Vol. 37, No. 9, PP 1981 to 1989	0.5 to 100.0 mg/kg
		Sulphur	In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on 184 B BASF, Agriculture research station limburgerhof, J. Elzner	1.0 to 100 mg/kg
		Abamectin	In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
		Bifenazate		0.01 to 5.0 mg/kg
		Buprofezin		0.01 to 5.0 mg/kg
		Cartap hydrochloride		0.01 to 5.0 mg/kg
		Chlorfenapyr		0.01 to 5.0 mg/kg
		Diflubenzuron		0.01 to 5.0 mg/kg
		Dithianone		0.01 to 5.0 mg/kg
		Dodine		0.01 to 5.0 mg/kg
		Enamectine benzoate		0.01 to 5.0 mg/kg
		Fenazaquin		0.01 to 5.0 mg/kg
		Flubendiamide		0.01 to 5.0 mg/kg
		4 Chlorfenuron		0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	64 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Hexythiazox		In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
	Isoprothiolone			0.01 to 5.0 mg/kg
	Mandipropamid			0.01 to 5.0 mg/kg
	Metribuzin			0.01 to 5.0 mg/kg
	Milbemectin			0.01 to 5.0 mg/kg
	Oxadiazon			0.01 to 5.0 mg/kg
	Propargite			0.01 to 5.0 mg/kg
	Pyriproxyfen			0.01 to 5.0 mg/kg
	Spinosad			0.01 to 5.0 mg/kg
	Spiromasifen			0.01 to 5.0 mg/kg
	Trichlorfon			0.01 to 5.0 mg/kg
	Tricyclazole			0.01 to 5.0 mg/kg
	Ametoctradin		In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on AOAC 2007.01, TNO	0.01 to 5.0 mg/kg
	Flonicamid			0.01 to 5.0 mg/kg
	Pyridaben			0.01 to 5.0 mg/kg
	Spirodiclofen			0.01 to 5.0 mg/kg
	Dinotefuran			0.01 to 5.0 mg/kg
	Iprodione			0.01 to 100 mg/kg
	Phenyl pyrazole			
	Fipronil and fipronil sulfone			0.0025 to 0.1 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	65 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dithiocarbamates as CS₂	In house validated method EL/SOP/520, Issue No. 01, Dt. 01.06.2010, based on Acta Chim. Slov. 2006, 53, 100 to 104	0.1 to 10 mg/kg
29.	Milk and Milk products	Pesticide Residues		
		o,p DDT	In house Validated Method	0.01 to 5.0 mg/kg
		p,p DDT	EL/SOP/521 based on AOAC	0.01 to 5.0 mg/kg
		o,p DDE	2007.01, TNO	0.01 to 5.0 mg/kg
		p,p DDE		0.01 to 5.0 mg/kg
		o,p DDD		0.01 to 5.0 mg/kg
		p,p DDD		0.01 to 5.0 mg/kg
		Alpha HCH		0.01 to 5.0 mg/kg
		Beta HCH		0.01 to 5.0 mg/kg
		Delta HCH		0.01 to 5.0 mg/kg
		Chlorthalonil		0.01 to 5.0 mg/kg
		Endosulfan alpha		0.01 to 5.0 mg/kg
		Endosulfan beta		0.01 to 5.0 mg/kg
		Endosulfan sulphate		0.01 to 5.0 mg/kg
		Methoxychlor		0.01 to 5.0 mg/kg
		Fenithrothion		0.01 to 5.0 mg/kg
		Malathion		0.01 to 5.0 mg/kg
		Phosphomidon		0.01 to 5.0 mg/kg
		Chlorfenvinphos		0.01 to 5.0 mg/kg
		Chlorpyrifos		0.01 to 5.0 mg/kg
		Ethion		0.01 to 5.0 mg/kg
		Phosalone		0.01 to 5.0 mg/kg
		Atrazine		0.01 to 5.0 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	66 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fenthion		In house Validated Method	0.01 to 5.0 mg/kg
	Fenvalarate		EL/SOP/521 based on AOAC	0.01 to 5.0 mg/kg
	Phorate		2007.01, TNO	0.01 to 5.0 mg/kg
	Alachlor			0.01 to 5.0 mg/kg
	Iprodione			0.01 to 5.0 mg/kg
	Profenophos			0.01 to 5.0 mg/kg
	Phenthoate			0.01 to 5.0 mg/kg
	Diazinon			0.01 to 5.0 mg/kg
	Dichlorovos			0.01 to 5.0 mg/kg
	Fenthion sulfone			0.01 to 5.0 mg/kg
	Fenthion sulfoxide			0.01 to 5.0 mg/kg
	Malaoxon			0.01 to 5.0 mg/kg
	Parathion methyl			0.01 to 5.0 mg/kg
	Paraaxon methyl			0.01 to 5.0 mg/kg
	2,4 D			0.01 to 5.0 mg/kg
	Monocrotophos			0.01 to 5.0 mg/kg
	Trichlorfon		In house validated method	0.01 to 5.0 mg/kg
	Benomyl		EL/SOP/521, Issue No. 01, Dt.	0.01 to 5.0 mg/kg
	Carbendazim		01.06.2010, based on AOAC	0.01 to 5.0 mg/kg
	Carbofuran		2007.01, TNO	0.01 to 5.0 mg/kg
	Edifenphos			0.01 to 5.0 mg/kg
	Pirimiphos methyl			0.01 to 5.0 mg/kg
	Paraquat			0.01 to 5.0 mg/kg
	Cypermethrin			0.01 to 5.0 mg/kg
	Aldrin			0.001 to 0.1 mg/kg
	Dieldrin			0.001 to 0.1 mg/kg
	Chlordane (cis, trans)			0.001 to 0.1 mg/kg
	Heptachlor & Heptachlor epoxide			0.001 to 0.1 mg/kg
	Gamma HCH			0.001 to 0.1 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	67 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
30.	Honey and Honey Products	Organochlorine pesticides (including PCBs)	In house validated method based on AOAC 2007.01 EL/SOP/526, Issue No. 01, Dt. 20.03.2012	
		Aldrin		0.01 to 5.0 mg/kg
		Dieldrin		0.01 to 5.0 mg/kg
		Chlorbenzilate		0.01 to 5.0 mg/kg
		o,p DDT		0.01 to 5.0 mg/kg
		p,p DDT		0.01 to 5.0 mg/kg
		o,p DDE		0.01 to 5.0 mg/kg
		p,p DDE		0.01 to 5.0 mg/kg
		o,p DDD		0.01 to 5.0 mg/kg
		p,p DDD		0.01 to 5.0 mg/kg
		Lindane		0.01 to 5.0 mg/kg
		Endosulfan alpha		0.01 to 5.0 mg/kg
		Endosulfan beta		0.01 to 5.0 mg/kg
		Endosulfan sulphate		0.01 to 5.0 mg/kg
		Heptachlor		0.01 to 5.0 mg/kg
		Heptachlor epoxide		0.01 to 5.0 mg/kg
		Vinclozolin		0.01 to 5.0 mg/kg
		Pyrethroids		
		Cypermethrin		0.01 to 5.0 mg/kg
		Deltamethrin		0.01 to 5.0 mg/kg
		Fenvalerate		0.01 to 5.0 mg/kg
		Permethrin		0.01 to 5.0 mg/kg
		Carbamates		0.005 to 5 mg/kg
		Carbaryl		0.005 to 5 mg/kg
		Carbofuran		0.005 to 5 mg/kg
		Propoxure		0.005 to 5 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	68 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
31.	Fish & Fish Products	Organophosphorus Pesticides	In house validated method based on AOAC 2007.01	
		Coumaphos	EL/SOP/526, Issue No. 01, Dt. 20.03.2012	0.005 to 5 mg/kg
		Malathion		0.005 to 5 mg/kg
		Malaoxon		0.005 to 5 mg/kg
		Phosalone		0.005 to 5 mg/kg
		Amitraz		0.005 to 5 mg/kg
		AlphaHCH		0.005 to 5 mg/kg
		Beta HCH		0.005 to 5 mg/kg
		Hexachlorobenzene		0.005 to 5 mg/kg
		Cyfluthrin		0.005 to 5 mg/kg
		Cyhalothrin		0.005 to 5 mg/kg
		Pesticide Residues		
		Aldrin	In house validated method based on AOAC 2007.01	0.01 to 5 mg/kg
		Alpha HCH	Method, TNO	0.01 to 5 mg/kg
		Beta HCH	EL/SOP/553, Issue No. 01, Dt. 21.04.2014	0.01 to 5 mg/kg
		Gamma HCH		0.01 to 5 mg/kg
		Delta HCH		0.01 to 5 mg/kg
		Carbaryl,		0.01 to 5 mg/kg
		Cis Chlordane		0.01 to 5 mg/kg
		Trans Chlordane		0.01 to 5 mg/kg
		o,p DDT		0.01 to 5 mg/kg
		p,p DDT		0.01 to 5 mg/kg
		o,p DDE		0.01 to 5 mg/kg
		p,p DDE		0.01 to 5 mg/kg
		o,p DDD		0.01 to 5 mg/kg
		p,p DDD		0.01 to 5 mg/kg
		Dieldrin		0.01 to 5 mg/kg
		Endosulfan alpha		0.01 to 5 mg/kg
		Endosulfan beta		0.01 to 5 mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	69 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Endosulfan sulphate		In house validated method based on AOAC 2007.01	0.01 to 5 mg/kg
	Endrin		Method, TNO	0.01 to 5 mg/kg
	Heptachlor		EL/SOP/553, Issue No. 01, Dt. 21.04.2014	0.01 to 5 mg/kg
	Heptachlor endo epoxide			0.01 to 5 mg/kg
	Heptachlor exo epoxide			0.01 to 5 mg/kg
	Hexachloro benzene			0.01 to 5 mg/kg
	Quinalphos			0.01 to 5 mg/kg
	2 Chlorobiphenyl			0.01 to 5 mg/kg
	2,2 Dichlorobiphenyl			0.01 to 5 mg/kg
	2,2',5 Trichlorobiphenyl			0.01 to 5 mg/kg
	2,4',5 Trichlorobiphenyl			0.01 to 5 mg/kg
	2,2',5,5' Tetrachlorobiphenyl			0.01 to 5 mg/kg
	2,2',3,5' Tetrachlorobiphenyl			0.01 to 5 mg/kg
	2,3',4,4' Tetrachlorobiphenyl			0.01 to 5 mg/kg
	2,2',4,5,5' Pentachlorobiphenyl			0.01 to 5 mg/kg
	2,2',3,4,5'			0.01 to 5 mg/kg
	Pentachlorobiphenyl			
	2,3,3',4',6			0.01 to 5 mg/kg
	Pentachlorobiphenyl			
	2,2',3,5,5',6			0.01 to 5 mg/kg
	Hexachlorobiphenyl			
	2,2',4,4',5,5'			0.01 to 5 mg/kg
	Hexachlorobiphenyl			
	2,2',3,4,5,5'			0.01 to 5 mg/kg
	Hexachlorobiphenyl			
	2,2',3,4,4',5'			0.01 to 5 mg/kg
	Hexachlorobiphenyl			

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	70 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		2,2',3,4',5,5',6 Heptachlorobiphenyl	In house validated method based on AOAC 2007.01 Method, TNO	0.01 to 5 mg/kg
		2,2',3,4,4',5',6 Heptachlorobiphenyl	EL/SOP/553, Issue No. 01, Dt. 21.04.2014	0.01 to 5 mg/kg
		2,2',3,4,4',5,5' Heptachlorobiphenyl		0.01 to 5 mg/kg
		2,2',3,3',4,4',5 Heptachlorobiphenyl		0.01 to 5 mg/kg
		2,2',3,3',4,4',5,5',6 Nonachlorobiphenyl		0.01 to 5 mg/kg
		Veterinary Drug Residues		
32.	Milk and milk products	Sulfonamides	In house validated Method	0.01 to 1mg/kg
		Sulfadimidine	EL/SOP/527, Issue No. 01, Dt. 02.05.2011	0.01 to 1mg/kg
		Sulfadizine		0.01 to 1mg/kg
		Sulfadimethoxin		0.01 to 1mg/kg
		Sulfadoxin		0.01 to 1mg/kg
		Sulfamethazin		0.01 to 1mg/kg
		Sulfanilamide		0.01 to 1mg/kg
		Sulfamerazin		0.01 to 1mg/kg
		Sulfamethoxypyridazin		0.01 to 1mg/kg
		Sulfathiazol		0.01 to 1mg/kg
		Sulfamethiazole		0.01 to 1mg/kg
		Tetracyclines		
		Chlortetracycline		0.01 to 1mg/kg
		Doxycycline		0.01 to 1mg/kg
		Oxytetracycline		0.01 to 1mg/kg
		Tetracycline		0.01 to 1mg/kg
		Epi - Chlortetracyclin		0.01 to 1mg/kg
		Epi - Oxytetracyclin		0.01 to 1mg/kg
		Epi - tetracyclin		0.01 to 1mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	71 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Trimethoprim		In house validated Method	0.025 to 0.5 mg/kg
	Chloramphenicol		EL/SOP/527, Issue No. 01, Dt. 02.05.2011	0.0002 to 0.005 mg/kg
	Metronidazole			0.0008 to 0.01mg/kg
	Ronidazole			0.0008 to 0.01mg/kg
	Spiromycin			0.08 to 1mg/kg
	Thiamphenicol			0.01 to 0.5mg/kg
	Tilmicosin			0.01 to 0.5mg/kg
	Tylosin A			0.01 to 0.5mg/kg
	Albendazol			0.008 to 1mg/kg
	Febendazole			0.008 to 0.1mg/kg
	Morantel			0.01 to 0.5mg/kg
	Aminoglycosides			
	Dihydrostreptomycin		In house validated Method	0.05 to 1mg/kg
	Streptomycin		EL/SOP/527, Issue No. 01, Dt. 02.05.2011	0.05 to 1mg/kg
	Gentamycin			0.05 to 1mg/kg
	Kanamycin A			0.10 to 2mg/kg
	Neomycin B,			1.0 to 15mg/kg
	Spectinomycin			0.1 to 2mg/kg
	Ivermectin			0.008 to 0.1mg/kg
	Enrofloxacin			0.025 to 0.5mg/kg
	Ciprofloxacin			0.025 to 0.5mg/kg
	Erythromycin A			0.01 to 0.4mg/kg
	Aminohydantoin (AHD)			0.0005 to 0.01mg/kg
	3 Amino 5 morpholino methyl 2 oxazolidinone (AMOZ)			0.0005 to 0.01mg/kg
	Amino oxazolidinone (AOZ)			0.0005 to 0.01mg/kg
	Semicarbazide (SEM)			0.0005 to 0.01mg/kg
	Phenyl Butazone			0.005 to 0.1mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	72 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
33.	Honey and Honey Products	Veterinary drug residues		
		Sulfonamides	In house validated Method	
		Sulfadimidine	EL/SOP/528, Issue No. 01, Dt. 02.05.2012	0.005 to 1mg/kg
		Sulfadizine		0.005 to 1mg/kg
		Sulfadimethoxine		0.005 to 1mg/kg
		Sulfadoxine		0.005 to 1mg/kg
		Sulfamethazine		0.005 to 1mg/kg
		Sulfanilamide		0.005 to 1mg/kg
		Sulfamerazine		0.005 to 1mg/kg
		Sulfamethoxypyridazin		0.005 to 1mg/kg
		Sulfathiazole		0.005 to 1mg/kg
		Sulfamethizol		0.005 to 1mg/kg
		Tetracyclines	In house validated Method	
		Chlortetracycline	EL/SOP/528, Issue No. 01, Dt. 02.05.2012	0.005 to 1mg/kg
		Doxycycline		0.005 to 1mg/kg
		Oxytetracycline		0.005 to 1mg/kg
		Tetracycline		0.005 to 1mg/kg
		Epi - Chlortetracyclin		0.005 to 1mg/kg
		Epi - Oxytetracyclin		0.005 to 1mg/kg
		Epi - tetracyclin		0.005 to 1mg/kg
		Trimethoprim		0.005 to 1.0 mg/kg
		Chloramphenicol		0.0002 to 0.005 mg/kg
		Metronidazole		0.0008 to 0.01 mg/kg
		Tylosin A		0.001 to 0.5 mg/kg
		Aminoglycosides		
		Dihydrostreptomycin		0.05 to 1mg/kg
		Streptomycin		0.05 to 1mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	73 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aminohydantoin (AHD)	In house validated Method	0.0005 to 0.01mg/kg
		3 - Amino 5 morpholino methyl - 2 - oxazolidinone (AMOZ)	EL/SOP/528, Issue No. 01, Dt. 02.05.2012	0.0005 to 0.01mg/kg
		Amino oxazolidinone (AOZ)		0.0005 to 0.01mg/kg
		Semicarbazide (SEM)		0.0005 to 0.01mg/kg
		Veterinary Drug Residues		
34.	Fish & Fish Products	Chloramphenicol	In house validated Method EL/SOP/554, Issue No. 01, Dt. 13.04.2014	0.00025 to 0.005mg/kg
		Nitrofurant		0.0005 to 0.01mg/kg
		AMOZ		0.0005 to 0.01mg/kg
		AHD		0.0005 to 0.01mg/kg
		AOZ		0.0005 to 0.01mg/kg
		SEM		0.0005 to 0.01mg/kg
		Tetracyclines		0.005 to 1.0mg/kg
		Chlortetracycline		0.005 to 1.0mg/kg
		Oxolinic Acid		0.005 to 1.0mg/kg
		Oxytetracycline		0.005 to 1.0mg/kg
		Tetracycline		0.005 to 1.0mg/kg
		Epi Chlortetracyclin		0.005 to 1.0mg/kg
		Epi Oxytetracyclin		0.005 to 1.0mg/kg
		Epi tetracycline		0.005 to 1.0mg/kg
		Sulfonamides		
		Sulfapyridine		0.005 to 1.0mg/kg
		Sulfadiazine		0.005 to 1.0mg/kg
		Sulfathiazole		0.005 to 1.0mg/kg
		Sulfamerazin		0.005 to 1.0mg/kg
		Sulfamethizole		0.005 to 1.0mg/kg
		Sulfamethazin		0.005 to 1.0mg/kg
		Sulfamethoxypyridazine		0.005 to 1.0mg/kg

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	74 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphamethaxazole	In house validated Method	0.005 to 1.0mg/kg
		Sulfadoxin	EL/SOP/554, Issue No. 01, Dt. 13.04.2014	0.005 to 1.0mg/kg
		Sulphadimethoxine		0.005 to 1.0mg/kg
		Sulfachloropyridazine		0.005 to 1.0mg/kg
		Metronidazole		0.0025 to 0.01 mg/kg
		Dimetridazole		0.0025 to 0.01 mg/kg
		Ronidazole		0.0025 to 0.01 mg/kg
35.	Dyes	Malachite Green	In house validated Method	0.001 to 1.0 mg/kg
	Fish & Fish Products	Leuco Malachite Green	EL/SOP/555, Issue No. 01, Dt. 20.07.2014	0.001 to 1.0 mg/kg
VI. INDUSTRIAL & FINE CHEMICALS, SPECIALTY CHEMICALS				
1.	Specialty chemicals, Dyes, Pigments, Inks, Auxiliaries, Drilling fluids & Drilling mud	NPEO as Nonyl phenol	In house method (EL/SOP/701, Issue No. 01, Dt. 25.04.2009, HPLC	2 to 20 ppm, 20 to 50 ppm, 50 ppm & above
		OPEO as Octyl phenol		2 to 20 ppm, 20 to 50 ppm, 50 ppm & above
		Metals		
		Barium as Ba	EPA SW 6010 B APHA 3120	0.5 to 10 mg/kg and above
		Cadmium as Cd		0.5 to 10 mg/kg and above
		Chromium as Cr		0.5 to 10 mg/kg and above
		Cobalt as Co		0.5 to 10 mg/kg and above
		Copper as Cu		0.5 to 10 mg/kg and above

Laboratory	Envirocare Labs Pvt. Ltd., A-7, Enviro House, MIDC, Wagle Estate, Main Road, Thane, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	23.12.2014
Certificate Number	T-1204	Valid Until	22.12.2016
Last Amended on	-	Page	75 of 75

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iron as Fe	EPA SW 6010 B APHA 3120	0.5 to 10 mg/kg and above
		Lead as Pb		0.5 to 10 mg/kg and above
		Manganese as Mn		0.5 to 10 mg/kg and above
		Nickel as Ni		0.5 to 10 mg/kg and above
		Silver as Ag		0.5 to 10 mg/kg and above
		Zinc as Zn		0.5 to 10 mg/kg and above
		Antimony as Sb		0.5 to 10 mg/kg and above
		Arsenic as As		0.5 to 10 mg/kg and above
		Mercury as Hg		0.5 to 10 mg/kg and above
		Selenium as Se		0.5 to 10 mg/kg and above
		Tin as Sn		0.5 to 10 mg/kg and above

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

Anuja Anand
Convenor

N. Venkateswaran
Program Manager