

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	1 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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I. AIR, GASES AND ATMOSPHERE

1	Ambient / Inplant Air Monitoring	Respirable Suspended Particulate matter less than 10µm or PM ₁₀	IS 5182 (Part 23) : 2006 (RA: 2012)	5 -10,000 µg/m ³
		Respirable Suspended Particulate matter less than 2.5µm or PM _{2.5}	In-house Validated Method STP/ENA/023 (Issue Date 17.06.13)	5 -500 µg/m ³
		Suspended Particulate Matter	IS 5182(Part IV) : 1999 1 st Rev (RA: 2010)	5 - 5000 µg/m ³
		Sulphur Dioxide	IS 5182 (Part II):2001 1 st Rev (RA: 2012)	4.0 -100 µg/m ³
		Nitrogen Dioxide	IS 5182 (Part VI) : 2006 1 st Rev (RA: 2012)	4.0 - 100 µg/m ³
		Carbon Disulphide	IS 5182 (Part XX) : 1982 (RA: 2009)	20 - 50 µg/m ³
		Chlorine [Free]	IS 5182 (Part XIX) : 1982 (RA :2009)	1.0 -50 µg/m ³
		Fluorides	IS 5182 (Part 13) : 1991 (RA :2009)	2 -50 µg/m ³
		Hydrogen Sulphide	IS 5182 (Part VII) : 1973 (RA :2009) Amend.1	5.0 -50 µg/m ³

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	2 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Ammonia	In-house Validated Method STP/ENA/012 (Issue Date 17.06.13)	4.0 -50 µg/m ³
		Acid mist	NIOSH 7903	0.1-20mg/m ³
		CO	In-house Validated Method	1 – 200 ppm
		VOC	STP/ENA/008	1 – 5000 ppm
		CO ₂	(Issue Date 17.06.13)	1 – 8000 ppm
		O ₂		1 – 23.5 %
		Volatile organic compounds (Ambient) [as per EPA 524 VOC Mix A]	In-house Validated Method STP/ENA/009 (Issue Date 17.06.13)	0.1 -2000µg/m ³
		Volatile organic compounds (Inplant)		1.0-200 mg/ m ³
		Benzene	IS 5182(Part XI) : 2006 (RA :2012) 2 nd Rev	1.0-2000µg/m ³
		Ozone	IS 5182(Part IX) : 1974 (RA :2009)	20 -500µg/m ³
		PAH [Particulate phase only]	IS 5182(Part XII):2004 (RA :2009)	1 - 5ng/m ³
		Toxic Metals -		
		Cadmium,	In-house Validated Method	0.005 -5 µg/m ³
		Chromium	STP/ENA/010	0.005 -5 µg/m ³
		Copper	(Issue Date 17.06.13)	0.005 -5 µg/m ³
		Iron		0.005 -5 µg/m ³
		Zinc		0.005 -5 µg/m ³
		Mercury		0.005 -5 µg/m ³

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	3 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Manganese	In-house Validated Method STP/ENA/010 (Issue Date 17.06.13)	0.005 -5 µg/m ³
		Nickel		2.0 -50 ng/m ³
		Arsenic		2.0 -10 ng/ m ³
		Lead	IS 5182(Part 22) : 2004 (RA :2009)	0.002-5 µg/m ³
2	Stack Emission Monitoring	Velocity & Volume of flue gas discharge	IS 11255 (Part 3) : 2008 1 st Rev.	1.30 -40 m/sec.
		Dust/Particulate Emissions	IS 11255(Part 1) : 1985 (RA :2009)	5 -1000 mg/Nm ³
		Sulphur Dioxide	IS 11255(Part 2) : 1985 (RA :2009)	5.0 - 1000mg/ Nm ³
		Oxides of Nitrogen	IS 11255(Part 7) : 2005 (RA :2012)	2- 500mg/ Nm ³
		Ammonia	IS 11255(Part 6) :1999 (RA :2009)	5 - 50mg/ Nm ³
		Volatile organic compounds (EPA 524 VOC Mix A)	In-house Validated Method STP/ENA/019 (Issue Date 17.06.13)	0.1 - 2000mg/ Nm ³
		CO ₂	In-house Validated Method	0 - 21%
		CO	STP/ENA/020	0 - 2%
		O ₂	(Issue Date 17.06.13)	0 - 25%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	4 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Metal Particulates		
		Cadmium	In-house Validated Method	1 – 5mg/ Nm ³
		Chromium	STP/ENA/021	1 – 5mg/ Nm ³
		Copper	(Issue Date 17.06.13)	1 – 5mg/ Nm ³
		Iron		1 – 5mg/ Nm ³
		Nickel		1 – 5mg/ Nm ³
		Lead		1 – 5mg/ Nm ³
		Arsenic		1 – 5mg/ Nm ³
		Zinc		1 – 5mg/ Nm ³
		Mercury		1 – 5mg/ Nm ³
		Manganese		1 – 5mg/ Nm ³
3	Noise	Noise Level	IS 9989:1981	35 – 130 dBA
II. METALS & ALLOYS				
1.	Metals & Alloys/ Iron, Steel & Ferro Alloys	Carbon	IS 228 P.1 1987, RA 2008 3 rd Rev. with Amd. 1	0.05 – 2.0%
		Chromium	IS 228 P.6 1987 3 rd Rev. RA 2009 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.1– 30% 0.006 – 1.0% 0.1 – 35.0%
		Copper	ASTM E-350-2012	0.004 – 5.0%
		Manganese	IS 228 P.12 2001 4 th Rev RA 2009 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.01 – 5.0% 0.005 – 2.0% 0.01 – 5.0%

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 5 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Molybdenum	IS 228 P.10 1989 3 rd Rev RA 2009 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.01 – 1.5% 0.01 – 1.5% 0.01 – 1.5%
		Nickel	IS 228 P.5 1987 3 rd Rev RA 2009 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.1 – 48.0% 0.005 – 1.00% 0.1 – 48.0%
		Phosphorous	IS 228 P.3 1987 3 rd Rev RA 2008 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.01 – 0.25% 0.02– 0.25% 0.02 – 0.35%
		Silicon	IS 228 P.8 1989 3 rd Rev RA 2009 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.05 – 5.0% 0.05 – 3.5% 0.05 – 4.0%
		Sulphur	IS 228 P.9 1989 3 rd Rev RA 2009 ASTM E-350-2012 ASTM E 353-1993 RA.06	0.005 – 0.5% 0.001 – 0.60% 0.002 – 0.5%
		Aluminium	ASTM E-350-2012	0.005 – 0.2%
		Vanadium	ASTM E353 1993 RA 06 /AAS	0.01 – 0.5%
		Lead	ASTM E-350-2012 ASTM E351-2013	5.0 – 1000 ppm

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	6 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium	ASTM E-350-2012 ASTM E351-1993 RA 06	5.0 – 100 ppm
		Mercury	IEC 62321 : 2008 JIS H 1066 : 1993	7.0 – 100 ppm 1.0 – 100 ppm
		Hexavalent Chromium	IEC 62321 : 2008 ISO 3613:2010	1.0 – 50 ppm
2.	Carbon and Low Alloy Steel	Aluminium Boron Carbon Chromium Cobalt Copper Manganese Molybdenum Nickel Niobium Phosphorous Silicon Sulphur Tin Titanium Vanadium Nitrogen	OES-ASTM E-415-2008, IS 8811 1998 1 st Rev RA 2006	0.007 – 0.095% 0.0008- 0.007% 0.03-1.1% 0.01-3.9% 0.01-0.20% 0.01-0.65% 0.01-2.0% 0.001-0.95% 0.01-5.0% 0.004-0.10% 0.006-0.085% 0.01-1.15% 0.001-0.25% 0.001-0.045% 0.005-0.5% 0.01-0.3% 0.006 – 0.0150%
3.	Stainless steel	Chromium Nickel Molybdenum Manganese Silicon Copper Niobium	OES-ASTM E-1086-2008 IS 9879:1998 1 st Rev	4.9 - 29.0% 5.10 - 24.0% 0.01 - 4.0% 0.40 – 3.0% 0.20 – 1.5% 0.006 – 4.0% 0.002 – 1.0%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	7 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aluminium	OES-ASTM E-1086-2008	0.003- 0.10%
		Carbon	IS 9879:1998 1 st Rev	0.01-0.25%
		Phosphorous		0.004 –0.15%
		Sulphur		0.001 – 0.065%
		Titanium		0.003 – 1.0%
		Nitrogen		0.029 – 0.250%
4.	Cast Iron and Pig Iron	Carbon	IS 12308 P.11 1991 RA 2006	1.50-4.50%
		Sulphur	IS 12308 P.2 1987 RA 2007 ASTM E 351- 2013	0.005 – 0.25% 0.005 – 0.25%
		Manganese	IS 12308 P.3 1987 RA 2007 ASTM E 351 – 2013	0.10 – 2.5% 0.10 – 2.0%
		Phosphorous	IS 12308 P.5 1991 RA 2006 ASTM E 351 – 2013	0.01-0.5% 0.02 – 0.9%
		Silicon	IS 12308 P.6 1991 RA 2006 ASTM E 351 – 2013	0.1 - 6.0% 0.1 – 6.0%
		Nickel	IS 12308 P.7 1991 RA 2006 ASTM E 351 - 2013	0.5- 36.0% 0.1 – 36.0%
		Molybdenum	IS 12308 P.9 1993 RA 2009 ASTM E 351 – 2013	0.01- 1.0% 0.01 – 1.5%
		Copper	IS 12308 P.12 1992 RA 2007 ASTM E 351 – 2013	0.01 - 0.5% 0.03 – 7.5% 0.01 – 2.5%
		Magnesium	IS 12308 P.13 1992 RA 2007 ASTM E 351 – 2013	0.005 – 0.1% 0.002 – 0.1%

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 8 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chromium	ASTM E-351-2013 ASTM E-351- 2013 IS 12308 P.8 1997 RA 2007	0.006-1.0% 0.1 – 30.0% 0.1 – 28.0%
		Carbon	OES -ASTM E 1999-2011	2.40 – 3.8%
		Chromium		0.10 – 2.0%
		Copper		0.02 – 0.75%
		Manganese		0.10 – 1.8%
		Molybdenum		0.10 – 1.2%
		Nickel		0.05 – 2.0%
		Phosphorous		0.02 – 0.4%
		Silicon		1.6 – 2.5%
		Sulphur		0.013 – 0.08%
		Tin		0.015 – 0.14%
		Titanium		0.044 – 0.12%
		Vanadium		0.015 – 0.22%
5.	Copper and its Alloys	Aluminium	IS 4027 P.9 1991 RA 2007	0.1- 12 %
		Copper	IS 440 :1964 RA 2006 IS 3685: 1966 RA 2006	99.0 -100.0% 50.0 -100.0%
		Iron	IS 4027 Part 8.1991 1 st Rev RA 2007	0.1 – 5.0%
		Lead	IS 3685:1966 RA 2006 ASTM E478-2008	1.0-27.0% 0.002 – 15.0%
		Manganese	IS 4027 Part 2 -1987 1 st Rev RA 2006	0.1 – 5.0%
		Nickel	IS 4027 Part 4: 1987 1 st Rev RA 2006 IS 440: 1964 RA 2006	0.03-5.0% 4.0-50.0%

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 9 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Phosphorous	IS 440: 1964 RA 2006	0.02 – 0.5% 0.01 – 0.5%
		Silicon	IS 3685: 1966 RA 2006	0.05 – 5.0%
		Tin	IS 4027 Part 5 1987 1 st Rev RA 2006	2.0-20.0% 0.05 – 2.0%
		Zinc	IS 3685 1966 RA 2006 ASTM E478-2008	2.0-50.0% 0.02-2.0%
		Mercury	JIS H 1066 :1993	1.0 – 50 ppm
		Cadmium	ISO 5960:1984	1.0 – 50 ppm
6.	Aluminium and its Alloys	Chromium	ASTM E-34-2011	0.01-1.0%
		Copper	ASTM E-34-2011	0.01-10.0%
		Iron	ASTM E-34-2011	0.02-2.0%
		Lead	ASTM E-34-2011	0.01-1.0%
		Magnesium	ASTM E-34-2011	0.002-5.0%
		Manganese	ASTM E-34-2011	0.01-2.0%
		Nickel	ASTM E-34-2011	0.01-4.0%
		Silicon	ASTM E-34-2011	0.3-20.0%
		Titanium	ASTM E-34-2011	0.005-0.5%
		Zinc	ASTM E-34-2011	0.003-10.0%
		Cadmium	ASTM E-34-2011	1.0 - 100 ppm
		Copper	ASTM E-1251- 2011	0.0005 -30.0%
		Silicon		0.001 - 14.0 %
		Magnesium		0.005 – 11.0%
		Zinc		0.005 – 10.0%
		Nickel		0.001 – 10.0%
		Manganese		0.002 – 8.0%
		Tin		0.005 – 7.5%
		Iron		0.005 – 4.0%

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 10 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Indium		0.015 - 0.05 %
		Chromium		0.001 - 4.0%
		Zirconium		0.001 - 1.0%
		Lead		0.002 - 0.7%
		Strontium		0.0005 - 0.05%
		Titanium	ASTM E-1251- 2011	0.002 - 0.5%
		Calcium		0.005 - 0.2%
		Vanadium		0.002 - 0.05 %
		Cadmium	ASTM E 1251-2011	1.0 - 100 ppm
7.	Zinc and its Alloys	Aluminium	ASTM E-536 - 2008	0.002 - 5.0%
		Copper	ASTM E-536 -2008	0.001 - 1.3%
		Iron	ASTM E-536 -2008	0.003 - 0.1%
		Cadmium	ASTM E-536 -2008	0.001 - 0.5%
		Lead	ASTM E-536 -2008	0.001 - 1.6%
		Magnesium	ASTM E-536 -2008	0.001 -15.0%
		Aluminium	IS 2599 1983 RA 2005	0.004 - 10.0%
		Copper		0.005 - 3.0%
		Magnesium		0.002 - 0.10%
		Iron		0.005 - 0.40%
		Lead		0.002 - 0.20%
		Tin		0.001 - 0.30%
		Cadmium		0.001 - 0.30%
8.	Tin and its Alloys	Tin	IS 998 P.1 1983 RA 2008	5.0 - 96%
		Antimony	IS 998 P.1 1983 RA 2008	0.5 - 6.0%
		Copper	IS 998 P.1 1983 RA 2008	0.01 - 4.0%
		Zinc	IS 998 P.1 1983 RA 2008	0.001 - 0.5%
		Cadmium	IS 998 P.1 1983 RA 2008	0.001 - 0.5%
		Nickel	IS 998 P.1 1983 RA 2008	0.001 - 0.5%
		Iron	IS 998 P.1 1983 RA 2008	0.001 - 0.5%
		Bismuth	IS 998 P.1 1983 RA 2008	0.001 - 0.5%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	11 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
9.	Lead and its Alloys	Antimony	IS 403 1964 RA 2005	0.5 – 16.0%
		Arsenic	IS 998 P.1 1983 RA 2008	0.001 – 0.5%
		Bismuth	IS 998 P.1 1983 RA 2008	0.001 – 0.5%
		Copper	IS 998 P.1 1983 RA 2008	0.001 – 0.5%
		Iron	IS 998 P.1 1983 RA 2008	0.001 – 0.5%
		Tin	IS 403 1964 RA 2005	5.0 – 40.0%
10.	Nickel & Nickel Alloys	Aluminium	ASTM E1835-2009	0.05 – 4.0%
		Chromium	ASTM 1473 – 2009	0.1 – 33.0%
		Cobalt	ASTM E1835-2009	0.01 – 4.0%
				0.1 – 5.0%
		Copper	ASTM E1835-2009	0.01 – 4.0%
				30 – 50%
		Iron	ASTM E1835-2009	0.1 – 4.0%
		Manganese	ASTM E1473-2009	0.05 – 2.0%
	Molybdenum	ASTM E1473-2009	0.01 – 1.5%	
	Silicon	ASTM E1473-2009	0.05 – 5.0%	

III. POLLUTION AND ENVIRONMENT

1	Liquid Effluents,	Acidity	APHA 22nd Edn.2012-2310 B	1 – 2400 mg/L
		Water and Waste Water	Alkalinity	APHA 22nd Edn.2012- 2320 B
		Bio-Chemical Oxygen Demand	APHA 22nd Edn.2012-5210B / 4500 O ₂ ,C IS 3025 1993 Part 44 R.2009	10 - 12000 mg/L
		Chemical Oxygen Demand	APHA 22nd Edn.2012-5220 B, C	5 – 50000 mg/L

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 12 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chlorides	APHA 22nd Edn.2012-4500 Cl ⁻ B, D	1 – 20000 mg/L
		Chlorine Residual	APHA 22nd Edn.2012-4500 Cl ⁻ B IS 3025 P.26 R.09 Amend.1	1.0 – 50.0 mg/L 0.1 – 50.0 mg/L
		Cyanides Total	APHA 22nd Edn.2012-4500 CN ⁻ C, E	0.01 – 10.0 mg/L
		Anionic surfactants	APHA 22nd Edn.2012-5540 C	0.1 – 10.0 mg/L
		Fluorides	APHA 22nd Edn.2012-4500 F ⁻ B, D	0.1 – 20.0 mg/L
		Total Hardness	APHA 22nd Edn.2012-2340 C,B	1 - 5000 mg/L
		Aluminium	APHA 22nd Edn.2012-3111 D, 3120 B	0.1 – 20.0 mg/L
		Antimony	APHA 22nd Edn.2012-3111 D, 3120 B	0.10 – 5.0 mg/L
		Arsenic	APHA 22nd Edn.2012-3114 B, 3120 B	0.005 - 2.0 mg/L 0.05 – 2.0 mg/L
		Barium	APHA 22nd Edn.2012-3111 D, 3120 B	0.10 - 5.0 mg/L
		Boron	APHA 22nd Edn.2012-3120 B	0.05 - 20.0 mg/L
		Cadmium	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 –5.0 mg/L

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	13 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Calcium	APHA 22nd Edn.2012-3500 Ca B, 3111 D, 3120 B	1.0 - 1000 mg/L 1.0 – 100 mg/L
		Hexavalent Chromium	APHA 22nd Edn.2012-3500 Cr B	0.05 – 100.0 mg/L
		Total Chromium	APHA 22nd Edn.2012-3111 B, D, 3120 B	0.05 – 25 mg/L
		Cobalt	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 – 5.0 mg/L
		Copper	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 – 10.0 mg/L
		Iron	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 - 50.0 mg/L
		Lead	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 – 50.0 mg/L
		Magnesium	APHA 22nd Edn.2012-3500 Mg B, 3111 D, 3120 B	1.0 – 2000 mg/L 1.0 – 100 mg/L
		Manganese	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 - 25.0 mg/L
		Mercury	APHA 22nd Edn.2012-3112 B, 3120 B	0.005 – 5.0 mg/L 0.01 – 2.0 mg/L
		Nickel	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 – 250 mg/L

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F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 14 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Potassium	APHA 22nd Edn.2012-3111 B, 3120 B	0.1 – 800 mg/L
		Selenium	APHA 22nd Edn.2012-3114 C, 3120 B	0.02- 5.0 mg/L
		Sodium	APHA 22nd Edn.2012-3111 B, 3120 B	0.1 – 2000 mg/L
		Silver	APHA 22nd Edn.2012-3111 B, 3120 B	0.01 – 5.0 mg/L
		Vanadium	APHA 22nd Edn.2012-3111 D, 3120 B	0.1 – 10.0 mg/L
		Zinc	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 – 250 mg/L
		Strontium	APHA 22nd Edn.2012-3111 D, 3120 B	0.05 – 5.0 mg/L
		Molybdenum	APHA 22nd Edn.2012-3111 B, 3120 B	0.05 – 5.0 mg/L
		Tin	APHA 22nd Edn.2012-3111 D, 3120 B	0.1 – 5.0 mg/L
		Thallium	APHA 22nd Edn.2012-3120 B	0.1 – 5.0 mg/L
		Nitrogen Ammoniacal	APHA 22nd Edn.2012-4500 NH ₃ B,C	1 – 500 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	15 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Free ammonia	IS 3025 P.34 1988 R.2009	0.1 – 10.0 mg/L
		Nitrogen Total	APHA 22 nd Edn.2012-4500 N . (org) B	1 – 500 mg/L
		Nitrate as NO ₃	APHA 22 nd Edn.2012-4500 NO ₃ B	0.5 – 400.0 mg/L
		Nitrite as NO ₂	APHA 22 nd Edn.2012-4500 NO ₂ B	0.05 – 50.0 mg/L
		Oil and grease	APHA 22 nd Edn.2012-5520 O&G B, C	2.0 – 2000 mg/L
		Dissolved Oxygen	APHA 22 nd Edn.2012-4500 O B, C	0.2 – 10.0 mg/L
		pH value	APHA 22 nd Edn.2012-4500 H ⁺ B	1-14 units
		Percent sodium	In house validated Method STP/ENN/056 (Issue Date 17.06.2013)	1-100 %
		Phenolics	APHA 22 nd Edn.2012-5530 B, C,D	0.01 – 250 mg/L
		Phosphates	APHA 22 nd Edn.2012-4500 P B,D, 3120 B	0.05 – 100 mg/L
		Electrical Conductivity	APHA 22 nd Edn.2012-2510 B	1.0 – 10000 micro mhos/cm

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	16 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total suspended solids	APHA 22nd Edn.2012-2540 D	1.0 – 50000 mg/L
		Total dissolved solids	APHA 22nd Edn.2012-2540 C	1.0 – 50000 mg/L
		Total solids	APHA 22nd Edn.2012-2540 B	1.0 – 50000 mg/L
		Fixed, volatile solid	APHA 22nd Edn.2012-2540 E	1.0 – 10000 mg/L
		Residual Sodium Carbonate	IS:11624-1986 RA 2001	0-20 m.eq/L
		Sodium Adsorption Ratio	IS:11624-1986 RA 2001	1 – 500 m.eq/L
		Sludge volume Index	APHA 22nd Edn.2012-2710 D	200 – 2000 mg/L
		Settleable matter	APHA 22nd Edn.2012-2540 F	1 – 5000 mg/L
		Silica	APHA 22nd Edn.2012-4500 SiO ₂ C, 3120 B	0.1 – 100.0 mg/L
		Sulphates	APHA 22nd Edn.2012-4500 SO ₄ ²⁻ C,E	1.0 – 12000 mg/L
		Sulphide	APHA 22nd Edn.2012-4500 S ²⁻ F	1.0 – 100 mg/L
		Sulphite	APHA 22nd Edn.2012-4500 SO ₃ ²⁻ B	1.0 – 100 mg/L
		Colour	APHA 22nd Edn.2012-2120 B	10- 500 Hazen units
		Odour	IS 3025 Part-5 1983 RA 2012	Objectionable/ Unobjectionable

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	17 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Particle size of SS	IS:6339-2013	10 – 10000 mg/L
		Turbidity	APHA 22nd Edn.2012-2130 B	1.0 – 500 NTU
		Temperature	APHA 22nd Edn.2012-2550 B	0-50°C
		PCB	APHA 22nd Edn.2012-6630-B	1.0 – 100 mg/L
		PAH	APHA 22nd Edn.2012-6440	1.0 – 100 mg/L
		Volatile Organic Compounds (EPA 524 VOC Mix)	APHA 22nd Edn.2012-6200 B	0.002 – 100 mg/L
2	Solid wastes, Sludges & Soils	pH	USEPA 9040 C- Nov 2004 (Rev 3) IS:2720- part 26:1987 RA 2011	1-14
		TCLP, metals in leachate : Arsenic, cadmium, chromium, cr6+, iron, lead, nickel, selenium, silver, barium, mercury, zinc,	APHA 22 nd EDN. 2012-3120 B USEPA 1311 – Jul 1992	0.05 –10.0 mg/L
		Moisture Content	IS:2720:part 2:1973 RA 2005 / FAO 2007	0.1- 90 %
		Gross Calorific value	USEPA 5050 – Sep 1994	50-12000 cal/g
		Loss on ignition	APHA 22nd Edn. 2012 - 2540 G	0.1-40 %
		Electrical Conductivity	IS:14767:2000 RA 2006 FAO 2007	1-10000 micromhos/cm

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	18 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chlorides	USEPA 9253 A-Sep 1994 FAO 2007	10-10000 mg/kg
		Sulphates	IS:2720 (Part 27)-1977 USEPA 9038 – Sep 1986	10-10000 mg/kg
		Oil and grease	APHA 22nd Edn. 2012 5520-E	1 – 1000 mg/kg
		Total Organic Carbon [Soils]	IS:2720(part 22)-1972 RA 2010/ FAO 2007	0.05 – 50 %
		Available Nitrogen [Soils]	FAO 2007	0.5 – 100 mg/100 g
		Available Phosphorous [soils]	FAO 2007	0.5 – 100 mg/100g
		Available Potassium [soils]	FAO 2007	0.2 – 100 mg/100g
		Metals		
		Antimony	USEPA 7040 – Sep 1986	1-5000 mg/kg
		Arsenic	USEPA 7061 A–Jul 1992 (Rev1)	1-5000 mg/kg
		Beryllium	USEPA 3031- Dec 1996	1-5000 mg/kg
		Cadmium	USEPA 7130 – Sep 1986	1-5000 mg/kg
		Chromium, hexavalent	USEPA 3060 A-Dec 1996 (Rev1)	1-5000 mg/kg
		Mercury	USEPA 7471 A-Sep 1994 (Rev1)	1-5000 mg/kg
		Selenium	USEPA 7741 A-Sep 1994 (Rev1)	1-5000 mg/kg
		Tellurium	USEPA 3031- Dec 1996	1-5000 mg/kg
		Thallium	USEPA 3031- Dec 1996	1-5000 mg/kg
		Inorganic cyanide	USEPA 9010 C-Nov 2004 (Rev 3)	1-100 mg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	19 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		PAH		
	Naphthalene		USEPA 8100 – Sep 1996	1-100 mg/kg
	Anthracene		USEPA 8100 – Sep 1996	1-100 mg/kg
	Phenanthrene		USEPA 8100 – Sep 1996	1-100 mg/kg
	Chrysene,		USEPA 8100 – Sep 1996	1-100 mg/kg
	benzo (a) anthracene,		USEPA 8100 – Sep 1996	1-100 mg/kg
	Flurathene,		USEPA 8100 – Sep 1996	1-100 mg/kg
	Benzo(a) pyrene,		USEPA 8100 – Sep 1996	1-100 mg/kg
	Benzo (k) fluoranthene,		USEPA 8100 – Sep 1996	1-100 mg/kg
	Indeno (1,2,3-Cd) pyrene		USEPA 8100 – Sep 1996	1-100 mg/kg
	benzo (ghi) perylene		USEPA 8100 – Sep 1996	1-100 mg/kg
	Benzene (VOC)		USEPA 5021 A-Jun 2003 (Rev1)	1-100 mg/kg
	Organo chlorine pesticides		USEPA 8081 A-Dec 1996 (Rev1)	1-100 mg/kg
	Chromium (III) compounds		USEPA 7190 – Sep 1986	1-5000 mg/kg
	Cobalt compounds		USEPA 7200-Sep 1986	1-5000 mg/kg
	Copper compounds		USEPA 7210-Sep 1986	1-5000 mg/kg
	Lead and Lead compounds		USEPA 7420-Sep 1986	1-5000 mg/kg
	Molybdenum compounds		USEPA 7480-Sep 1986	1-5000 mg/kg
	Nickel compounds		USEPA 7520-Sep 1986	1-5000 mg/kg
	Inorganic tin compounds		USEPA 7870-Sep 1986	1-5000 mg/kg
	Vanadium compounds		USEPA 7910-Sep 1986	1-5000 mg/kg
	Tungsten compound		USEPA 3031-Dec 1996	1-5000 mg/kg
	Silver compounds		USEPA 7760 A-Jul 1992 (Rev1)	1-5000 mg/kg
	Halogenated aliphatic compounds		USEPA 8010-Sep 1994 (Rev2)	1-100 mg/kg
	Organo phosphorous compounds		USEPA 8141 A– Sep1994 (Rev1)	1-100/ mg/kg
	Phenol and Phenolic compounds		APHA 22 nd Edn. 2012-5530 B, C	1-1000 mg/kg

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 20 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3	Pesticides in Effluents	2, 4 DDT	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		4, 4 DDT	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		2, 4 DDE	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		4, 4 DDE	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		2, 4 DDD	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		4,4 DDD	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		γ - HCH (Lindane)	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		α - HCH	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		β - HCH	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		δ - HCH	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		Endosulfan α	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		Endosulfan β	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		Endosulfan sulphate	USEPA 8081A-Dec 1996 (Rev1)	1 – 100 mg/L
		Monocrotophos	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Ethion	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Chloropyrifos	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Phorate	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Phorate Sulphoxide	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Phorate Sulphone	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		2, 4-D	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Butachlor	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Isoproturon	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Alachlor	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Atrazine	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Methyl parathion	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
		Methyl paraoxon	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L
Malathion	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L		
Malaoxon	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L		
Aldrin	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L		
Dieldrin	USEPA 8141A-Sep 1994 (Rev1)	1 – 100 mg/L		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	21 of 88

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

1	Plantation white sugar and Refined sugar - icing sugar, palm sugar, brown sugar, jaggery & any other sugar products	Loss on drying	IS 15279 2003 RA 2008	0.01 – 10 %
		Polarisation	IS 15279 2003 RA 2008	50 – 100 %
		Reducing sugar	IS 15279 2003 RA 2008	0.01 – 10 %
		Sulphated ash	IS 15279 2003 RA 2008/ DGHS Manual 4, 2005	0.01 – 5.0 %
		Total Sugar as Sucrose	IS 15279 2003 RA 2008	10 – 99.99 %
		Colouring Matter	DGHS Manual 4, 2005	Qualitative
		Extraneous Matter and Dirt, Filth and Iron Fillings	DGHS Manual 4, 2005	0.1 % and 10%
		Colour (ICUMSA units)	IS 15279 2003 RA 2008 Method 9&10 GS2/3-10/ 2007 & GS2/3-9/2005	20 – 250 (ICUMSA Unit)
	Toxic Metals	AOAC 19th Edn. 2012.	0.02–100 mg/kg	
	Lead	2012- Chapter 9	DL: 0.01 mg/kg	
	Cadmium			
	Mercury			
	Chromium			
	Arsenic			
	Copper			
	Tin			
	Zinc			

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	22 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2	Nut and nut products -All edible nuts – cashew, groundnut, walnut, almonds, dates and any nut products	Moisture	AOAC 19th Edn. 2012. 925.40	0.1 – 20.0 %
		Fat	AOAC 19th Edn. 2012. 948.22	0.1 – 70 %
		Extraneous matter	DGHS Manual 10, 2005	0.1 & 10%
		Acidity of extracted fat expressed as oleic acid	AOAC 19th Edn. 2012 940.28	0.01 & 10%
		Protein	AOAC 19th Edn. 2012 950.48	0.5 – 50.0 %
		Crude Fibre	AOAC 19th Edn. 2012 935.53	0.05 – 10.0 %
		Total Ash	AOAC 19th Edn. 2012 950.49	0.1 – 10.0%
		Carbohydrates	DGHS Manual 3, 2005	5.0 – 90%
		Energy kcal/10g	DGHS Manual 3, 2005	50 – 800 kcal/g
		Sodium chloride	AOAC 19th Edn. 2012. 950.52 /	0.1 – 5.0%
		pH	AOAC 19th Edn. 2012. 943.02	1 – 14
Peroxide value	IS 548 Part 1, 1964 RA 2009	0.01 – 10m.eq/Kg of extracted fat		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	23 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3	Oils and fats All edible or non edible fat, all oil seeds [groundnut, sesame, coconut] etc., ghee, butter, tallow, cooking fat, spreading fat, any other oil / fat	Lovi bond colour	IS 548 Part 1 1964 RA 2009 / DGHS Manual 4, 2005	0.5 – 50
Moisture		AOAC 19th Edn. 2012. 984.20 / 926.12 / DGHS Manual 4, 2005	0.01 – 10%	
Moisture and Volatile matter		AOAC 19th Edn. 2012. 926.12	0.01 – 10%	
Sp. gravity		AOAC 19th Edn. 2012. 920.212, 920,213	0.5 – 1.5	
Refractive Index		AOAC 19th Edn. 2012 921.08	1.30 – 1.70	
Melting point		AOAC 19th Edn. 2012 920.156, 920.157	20 – 80°C	
Iodine value		AOAC 19th Edn. 2012 920.159	5 – 150	
Peroxide value		AOAC 19 th Edn.2012. 965.33	0.01 – 20 m.eq/kg	
Saponification value		AOAC 19th Edn. 2012 920.160	10 – 300	
Unsaponifiable matter		AOAC 19th Edn. 2012 933.08	0.1 – 5.0%	
Free fatty acid		AOAC 19th Edn. 2012 940.28	0.01- 10.0%	
Acid value	AOAC 19th Edn. 2012. 940.28	0.01 – 10		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	24 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Reichert Meissel value	AOAC 19th Edn. 2012. 925.41	2 – 30
		Polenske value	AOAC 19th Edn. 2012. 925.41	0.1 – 25
		Flash point [Penske Marten closed method)	DGHS Manual 2, 2005	25°C - 300°C
	Sesame oil (Baudouins Test)		AOAC 19th Edn. 2012. 893.01 IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
	Presence of mineral oil		DGHS Manual 2 2005	Qualitative
	Presence of Argemone oil		DGHS Manual 2 2005 IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
	Presence of hydrocyanic acid		DGHS Manual 2 2005 IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
	Rancidity		DGHS Manual 2 2005	Qualitative
	Cotton seed oil		IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
	Bellier test		IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
	Castor oil		IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
	Linseed oil		IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	25 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Karanja oil	IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
		Neem oil	IS 548 Part 2 1976 3 rd Rev RA 2009	Qualitative
		Hexane	DGHS Manual 2, 2005	1.0-500 mg/kg
4	Stimulant foods Beverage and beverage products, tea , coffee, and coffee products, roasted chicory powder chocolate and chocolate products cocoa and cocoa products, milk shake powder, instant drinks	Moisture	AOAC 19 th Edn. 2012 925.19	0.1 - 10%
		Crude Fibre	AOAC 19 th Edn.2012 920.102	0.05–20.0%
		Total ash	AOAC 19 th Edn.2012 920.100	0.1– 10.0%
		Acid insoluble ash	AOAC 19 th Edn.2012 920.100 /DGHS Manual 4, 2005	0.01– 5.0%
		Water extract	DGHS Manual 4, 2005 / AOAC 19 th Edn. 2012 920.104	20 – 80%
		Water Soluble ash of Total ash	AOAC 19 th Edn. 2012 920.100	0.1– 10.0%
		Insoluble ash of Total ash	AOAC 19 th Edn. 2012 920.100	0.1– 10.0%
		Alkalinity of soluble ash	AOAC 19 th Edn.2012 920.100	0.1 – 5.0%
		Petroleum Ether Extract	AOAC 19 th Edn 2012 925.18	0.01 – 20%
		Caffeine	AOAC 19 th Edn 2012 925.17	0.01 – 5%
	Solubility in hot water	DGHS Manual 4, 2005	Qualitative	

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	26 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5	Cereals, Pulses and Flour - Any edible food grain whole, split or ground [raw and processed flour and flour based product, premixes, and any other food grains	Moisture	AOAC 19th Edn. 2012. 925.10	0.1 – 20.0%
		Protein	AOAC 19th Edn. 2012 920.87	0.5 – 30.0%
		Gluten	DGHS Manual 3, 2005	0.5 – 15.0%
		Crude Fibre	AOAC 19th Edn. 2012 920.86	0.05 – 10.0%
		Total Ash	AOAC 19th Edn. 2012. 923.03	0.1 – 10.0%
		Acid insoluble ash	IS 4706 Part 2 1978 1 st Rev RA2009	0.01 – 5.0%
		Fat	AOAC 19th Edn. 2012. 920.85	0.1 – 25.0%
		Sugar as sucrose	AOAC 19th Edn. 2012 975.14, 939.03	0.1 – 5%
		Energy Kcal/100 g	DGHS Manual 3, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 3, 2005	10 – 80 %
		Alcoholic acidity	DGHS Manual 3, 2005	0.1 – 6.0%
		Uric acid	DGHS Manual 3, 2005	5.0 – 200 mg/kg
		Foreign matter	DGHS Manual 3, 2005	0.005-10%
		a. Mineral matter b. Organic matter		
		Other edible grains	IS 4333 (P-5) 1970 RA 2009	Qualitative
Argemone Seeds	DGHS Manual 3, 2005	Qualitative		
Kesari dhall	DGHS Manual 3, 2005	Qualitative		
Insect	DGHS Manual 3, 2005	Qualitative		
Microscopic Examination	DGHS Manual 3, 2005	Qualitative		
Physical examination which includes Rodent hair excreta, Presence of Mould,		Qualitative		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	27 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Test for added colour	DGHS Manual 8, 2005	Qualitative
		Test for mineral oil	IS 548 (Part 2):1976 RA 2009	Qualitative
		Foreign matter	IS 4333 P.5 1970 RA 2009/ DGHS Manual 3, 2005	0.01 – 10%
		Starch	IS 4706 Part 21 st Rev RA 2009	0.1 – 80%
		Salt	AOAC 19 th Edn 2012 950.52	0.25 – 10%
		Extraneous matter and Filth	IS 4333 Part 1 1996 2 nd Rev RA 2009 DGHS Manual 3, 2005	0.05 – 10%
		Damaged grains and Discoloured grains	IS 4333 Part 1 1996 2 nd Rev RA 2009 DGHS Manual 3, 2005	0.01 – 20 %
		Shrivelled / shrunken / broken	IS 4333 Part 1 1996 2 nd Rev RA 2009 DGHS Manual 3, 2005	0.01 – 20%
		Ad mixture	IS 4333 Part 1 1996 2 nd Rev RA 2009	0.01 – 5%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	28 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6	Spices and condiments and related products – Any edible spice whole, ground, or mixed (turmeric, chilies, cinnamon, cumin seeds, cardamom, tamarind, spice blends, herbs)	Total ash	AOAC 19 th Edn. 2012 941.12	0.1 – 15.0%
Moisture		AOAC 19 th Edn.2012 986.21-	0.1 – 20.0%	
Protein		AOAC 19 th Edn 2012 920.173	0.1 – 30.0%	
Volatile oils		AOAC 19 th Edn2012 962.17	0.1 – 5.0%	
Sodium chloride		AOAC 19 th Edn. 2012 941.13	0.1 – 5.0%	
Adulterants		AOAC 19 th Edn 2012 916.01	Qualitative	
Alcoholic extract		IS 1797 1985 2 nd Rev RA 2009/DGHS Manual 10, 2005	0.5 – 5%	
Cold water solution extract		IS 1797 1985 2 nd Rev RA 2009	0.1 – 25%	
Acid insoluble ash		AOAC 19 th Edn 2012 941.12	0.01 – 10.0%	
Extraneous matter and Filth		AOAC 19 th Edn 2012 916.01	0.1 – 5.0%	
Extractable Colour		AOAC 19 th Edn.2012 971. 26	20 – 100 ASTA colour units	
Piperine		ASTA 4 th Edn. 1997 – 12.1	0.1 – 20%	
Non volatile ether extract		AOAC 19 th Edn. 2012 920.172	0.1 – 20%	
Crude fibre	AOAC 19 th Edn.2012 923.08	0.1 – 40%		
Starch	IS 4706 P.2 1978 1 st Rev RA 2009	0.1 – 70%		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	29 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Scoville heat unit	ASTA 4 th Edn. 1997 - 21.3	1000 - 55,000 SHU
		Capsaicin	ASTA 4 th Edn.1997 - 21.3	5 – 10%
		Curcumin	ASTA 4 th Edn. 1997 – 18.0	0.1-5%
		Energy-Kcal/100g	DGHS Manual 3, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 3, 2005	10 – 80 %
		Peroxide value	IS 548 Part 1 1964 RA 2009 DGHS Manual 2, 2005	0.1 – 10 m.eq/kg of extract fat
7	Soft drinks Carbonated and non carbonated beverages – Cola, lemonade, fruit juice drink, tonic water, instant drink powders, any other carbonated / non carbonated drinks.	Total acidity	AOAC 19 th Edn.2012 950.15	0.1 – 5.0 %
		Volatile acidity	AOAC Chapter 29 19 th Edn.2012 - 950.21	0.1 – 5.0 %
		Fixed acidity	AOAC Chapter 29 19 th Edn. 2012 - 950.21	0.1 – 5.0 %
		Sodium benzoate Saccharin, Caffeine	AOAC Chapter 29, 19 th Edn. 2012 - 979.08	0.5 – 1000 mg/kg
		Total solids	AOAC Chapter 29 19 th Edn -2012 - 950.27	5.0 – 25.0 %
		Energy-Kcal/100g	DGHS Manual 4, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 4, 2005	10 – 80 %
		Moisture	IS 5781 1993 1 st Rev RA 2008 DGHS Manual 5, 2005	0.1 – 95%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	30 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Ash	GAFTA 2003 (12.0) DGHS Manual 5, 2005	0.1 – 40%
		Acid insoluble ash	IS 13846 1993 1 st Rev RA 2008 DGHS Manual 5, 2005	0.01 – 5%
		Sulfur dioxide	AOAC 19 th Edn. 2012. Chapter 47 990.28	10 - 80 mg/kg
		Total soluble solids	DGHS Manual 5, 2005	0.1 – 50%
8	Fish and other marine products – shrimps / crustaceans / Tuna, Cuttle, Octopus, squid	Moisture	AOAC Chapter 35, 19 th Edn. 2012- 952.08	1.0 – 85%
		Ash	AOAC Chapter 351, 19 th Edn. - 2012-938.08	0.1- 20%
		Protein	AOAC Chapter 35, 19 th Edn. 2012 - 940.25	0.5 – 70%
		Fat	AOAC Chapter 35, 19 th Edn. 2012 - 948.15	0.1 – 20%
		Fibre	DGHS Manual 6, 2005	0.1 – 5 %
		Ash Insoluble in Dil. HCl	IS 4706 (Part 2): 1978 1 st Rev. RA 2009	0.01 – 5.0%
		Acidity of Extracted Fat	AOAC Chapter 41, 19 th Edn. 2012 - 940.28	0.01% - 5 %

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 31 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Starch	IS 4076 (Part 2) 1 st Rev. RA 2009	0.1 – 80%
		Added Colour	DGHS Manual 8, 2005	Qualitative
		Salt as NaCl	AOAC Chapter 35, 19 th Edn.2012 - 937.09	0.01 – 5 %
		Histamine	In house validated Method STP/INS/012 (Issue Date 17.06,2013)	2 – 500 mg/kg
		Total phosphate	DGHS Manual 6, 2005	0.05–5000 mg/kg
		Total volatile base nitrogen (TVBN)	Manual of Analytical Methods for Fish & Fishery Products, 1995.	1–50 mg/100g
		Sodium metabisulfate as SO ₂	AOAC 19th Edn. 2012. 990.28	10 - 100 mg/kg
		Indole	In house Validated Method STP/INS/013 (Issue Date 17.06.2013)	5-200 µg/kg
		Trimethylamine	AOAC 19th Edn. 2012 971.14	0.1 - 50 mg/100g
		Energy-Kcal/100g	DGHS Manual 6, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 6, 2005	0.1 – 70 %

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	32 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
9	Dairy products – Whole milk powder, table powder, curd, skimmed milk powder, ice cream, ghee, cheese, butter milk, khoya, paneer, cream, malai, chhana, condensed milk [sweetened & unsweetened], infant milk food, milk cereal based complementary food, malted milk foods, infant formula.	Salt as NaCl	AOAC 19th Edn. 2012 935.43/ DGHS Manual 1, 2005	0.1 – 5.0%
Milk Fat		AOAC 19th Edn. 2012. 989.05 / IS 11721 2005	0.1 – 99.0%	
Moisture		AOAC 19th Edn. 2012. 920.116, 927.05 / IS 11623 2008 1 st Revision/ DGHS Manual 1, 2005	0.1 – 95.0%	
Total ash		AOAC 19th Edn. 2012 945.46 / IS 1479 Part 2 1961 RA 2009 / IS 1165 2002 Annex A Rev. 5 RA 2009	0.1 – 10.0%	
Acid insoluble ash in dilute HCl		DGHS Manual 1, 2005	0.01 – 0.1 %	
Chloride		IS 1479 Part 2 1961 RA.2009 / DGHS Manual 1, 2005	0.01 – 5.0 %	
Density		AOAC 19th Edn. 2012 925.22 / IS 1479 Part 1 1961 RA.2009	0.5-2g/cc	
pH		IS 1479 Part 1 1961 RA.2009	1 – 14	
Acidity as lactic acid		AOAC 19th Edn. 2012 947.05 / IS 1479 Part 1 1961 RA.2009	0.1 – 5.0%	
Total solids		AOAC 19th Edn. 2012 925.23	5 – 99%	
Milk Protein	AOAC 19 th Edn. 2012 991.20 / IS 1479 part 1 1964 RA 2009	0.5 – 40.0%		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	33 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Preservatives	IS 1479 Part 1 & 2 1961 RA 2009	Qualitative
		Energy-Kcal/100g	DGHS Manual 1, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 1, 2005	0.1 – 70 %
		Sucrose	IS 1479 Part 2 1961 RA 2009 / IS 1166 Amd. 3 Rev.2 RA 2009 , AOAC 19th Edn. 2012. 930.28	1.0 – 30.0%
		Lactose	AOAC 19 th Edn.2012- 930.28 / IS 11202 2005 1 st Rev	1.0 – 60.0%
		Titrateable acidity as oleic acid	DGHS Manual 1, 2005	0.001% and 2%
		Curd (MSNF)	DGHS Manual 1, 2005	0.01% - 1%
		Refractive index	DGHS Manual 1, 2005 AOAC 19 th Edn.2012 921.08	1.30-1.70
		Reichert value	DGHS Manual 1, 2005 AOAC , 19 th Edn 2012 925.41	1- 35
		Polenske value	DGHS Manual 1, 2005 AOAC , 19 th Edn 2012 925.41	5 – 25
		Melting point	AOAC , 19 th Edn 2012 920.156	30 – 50°C
		Titrateable acidity (ml of 0.1 N NaOH in 10 g solids not fat)	IS 11766 1986 Amd 1 RA 2008 / IS 1165 Annex B 2002 RA 2009	10 – 22 mL 1 – 30 mL
		Scorched particles/ Sediment test	IS 12759 1989 RA 2005 IS 1479 Part 2 1961 RA.2009	Disc A – D

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	34 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Solubility %	DGHS Manual 1, 2005	90 – 99%
		Insolubility index	IS 12759 1989 RA 2005	0.1 – 5.0
		WPN index	IS 12759 1989 RA 2005	2.0 – 6.0 mg/100g
		Iodine	AOAC 19th Edn. 2012.973.67	0.1-60 mg/ Kg
		Urea	AOAC 19th Edn. 2012 967.07 / DGHS Manual 1, 2005	1-800 mg/kg
		Solids not fat	AOAC 19th Edn. 2012 – 990.21 DGHS Manual 1, 2005 IS 1479 Part 1 1960 RA 2009	5 – 50% 0.1 – 5%
10	Egg and Egg Products – Raw egg, egg powder, whole egg powder, Albumin & yoke.	Moisture	DGHS Manual 6- 2005	0.1 – 70%
		Fat	DGHS Manual 6- 2005	0.1 – 65%
		Protein	DGHS Manual 6- 2005	0.1 – 85%
		Ash	DGHS Manual 6- 2005	0.1 – 10%
		pH	DGHS Manual 6- 2005	1 – 14
		Solubility	DGHS Manual 6- 2005	40 - 95%
		Free fatty acids	DGHS Manual 6- 2005	0.1 – 10%
		Phosphate residue	DGHS Manual 6- 2005	0.1 - 2%
		Salt as NaCl	DGHS Manual 6, 2005	0.25 – 5%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	35 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Energy-Kcal/100g	DGHS Manual 6, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 6, 2005	0.1 – 70 %
11	Meat & Meat Products – Canned, cooked, cured, pickled, sausage, poultry meat, ham, goat meat	Moisture	AOAC 19th Edn. 2012. 950.46,920.15/ DGHS Manual 6, 2005	0.1 – 70%
		Fat	AOAC 19th Edn. 2012. 940.28	0.1 – 65%
		Protein		0.1 – 85%
		Ash		0.1 – 10%
		Free fatty acids		0.1 – 6.0%
		Salt as NaCl	DGHS Manual 6, 2005/	0.25 – 5%
		Energy-Kcal/100g	DGHS Manual 6, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 6, 2005	0.1 – 70 %
12	Fresh Fruit & Vegetables – Raw, juices, (sweetened and unsweetened), salads, any other Fruit and Vegetable products.	Moisture	AOAC 19th Edn. 2012 934.06	0.1 – 90.0%
		Total solids	AOAC 19th Edn. 2012 920.151	5.0 – 80.0%
		pH	DGHS Manual 5, 2005	1 – 14
		Acidity as acetic acid	AOAC 19th Edn. 2012 942.15 / DGHS Manual 5, 2005	0.01 – 5.0%
		Sugar as invert sugar	AOAC 19th Edn. 2012 925.36 / DGHS Manual 5, 2005	1.0 – 50.0%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	36 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Energy-Kcal/100g	DGHS Manual 5, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 5, 2005	0.1 – 70 %
		Benzoic acid	DGHS Manual 8, 2005	1- 1000 mg/kg
		Sodium chloride [Brine]	IS 2860 1964 RA 2008 DGHS Manual 5, 2005	0.25 – 30%
		Brix°	IS 13815 1993 RA 2008	2 – 90
		Total ash	IS 13846 1993 RA 2008 DGHS Manual 5, 2005	0.1 - 15%
		Acid insoluble ash	IS 13846 1993 RA 2008 DGHS Manual 5, 2005	0.05 – 5%
		Total soluble solids	IS 13815 1993 RA 2008 DGHS Manual 5, 2005	0.1 – 25%
		Titrateable acidity	DGHS Manual 5, 2005	0.1 – 5%
		Water insoluble solids	IS 13845 2003 RA 2008	0.1 – 25%
13	Salt (common salt)	Moisture	IS 797 : 1982	0.01–5%
		Water insoluble matter	IS 797 : 1982	0.01–1%
		Sodium chloride	IS 797 : 1982	50% - 100%
		Water soluble matter other than NaCl	IS 797 : 1982	0.01– 5%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	37 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iodine content	IS 797 : 1982	0.1– 50mg/kg
		Acid insoluble matter	IS 797 : 1982	0.01–1%
14	Bakery and confectionary products and Snacks and convenience products Raw and cooked starch based processed foods	Moisture	DGHS Manual 3, 2005	0.1 – 50%
		Total ash		0.1 – 10%
		Acid insoluble ash		0.01-2%
		Alcoholic acidity	DGHS Manual 3, 2005	0.1 – 5 ml of 1 N NaOH /100g of product
		Total solids	AOAC 19th Edn. 2012. 925.10 IS 1483 1988 RA 2009	0.1 – 5% 5 – 50%
		Acidity of extracted fat	IS 1011 2002 RA 2009 DGHS Manual 3, 2005	0.1 – 3%
		Protein	DGHS Manual 3, 2005	1 – 20%
		Crude fibre		0.1 – 2%
		Fat		0.1 – 30%
		Reducing sugar		0.1 – 25%
		Starch	IS 4706 Part 2 RA 2009	0.1 – 80%
		Peroxide value	IS 548 Part 1 1964 RA 2009	0.1 – 10 m.eq/kg of fat
		Salt	AOAC 19th Edn. 2012. 950.52/ DGHS Manual 3, 2005	0.25 – 20%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	38 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		pH of aqueous extract	IS 4706 Part 2 1978 1 st Rev RA 2009	1 – 14
		Energy-Kcal/100g	DGHS Manual 3, 2005	50 – 800 kcal/g
		Carbohydrates	DGHS Manual 3, 2005	0.1 – 70 %
15	Vitamins and mineral premixes and health foods – health mixes, health drinks, sports health supplement, choorna, chyawanprash, herbal base health foods, any other health food	Moisture	DGHS Manual 5, 2005	0.5 – 90%
		Total ash	DGHS Manual 5, 2005	0.1 – 10%
		Acid insoluble ash	DGHS Manual 5, 2005	0.01 – 2%
		Peroxide value	IS 548 Part 1 1964RA 2009 DGHS Manual 5, 2005	0.1 – 10 m.eq/kg of fat
		Sulfur Dioxide	AOAC 19th Edn. 2012 962.16	1 – 2500 mg/kg
		Benzoic acid	DGHS Manual 8, 2005	1- 1000 mg/kg
16	Traditional sweets and sweet meats – Any variety of traditional sweets of perishable / long lasting nature, gulab jamoona, barffi, jilebbi, pedha, all variety of mithais, ladoos, any other sweet meats.	Moisture	AOAC 19th Edn. 2012. 941.14 IS 6287 1985 Amd 1 1 st Rev RA 2009	0.5 – 99%
		Total solids	AOAC 19th Edn. 2012. 941.14	0.5 – 50%
		Total ash	DGHS Manual 4, 2005	2 – 255
		Acid insoluble ash	IS 6287 1985 Amd 1 1 st Rev RA 2009	0.05 – 2%
		Peroxide value	IS 548 Part 1 1964, RA 2009 DGHS Manual 5, 2005	0.1 – 10 m.eq/kg of fat
		Sulfur Dioxide	AOAC 19th Edn. 2012. 962.16	1 – 2500 mg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	39 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
17	Pickles, curry paste, sauces and masalas – Any kind of sauce, jam, chutney, pickles in oil, brine, citric acid, salads sauces, non salad sauces, any other sauce or paste	Moisture	IS 3882 1966 RA 2008 IS 5781 1993 1 st Rev RA 2008	0.1 – 90%
		Total ash	DGHS Manual 5, 2005 IS 13846 1993 RA 2008 IS 3500 1966 RA 2009	2 – 25%
		Acid insoluble ash	IS 13846 1993 RA 2008 DGHS Manual 5, 2005	0.05 – 25
		Salt	IS 1797 1985 Amd 2 2 nd Rev RA 2009	0.25 – 35%
		Total solids	IS 3882 1966 RA 2009 IS 5781 1993 1 st Rev RA 2008	0.1 – 90%
		Acidity	IS 13844 2003 RA 2008 IS 3500 1966 RA 2009	0.1 – 2% 2 – 10%
		Peroxide value	IS 548 Part 1 1964, RA 2009 DGHS Manual 5, 2005	0.1 – 10 m.eq/kg of fat
		Benzoic acid	DGHS Manual 8, 2005	1- 1000 mg/kg
18	Feeding stuff Pet foods, external products	Moisture	AOAC 19th Edn. 2012. 953.07	5 – 30%
		Ash	AOAC 19th Edn. 2012. 942.05	0.1 – 15%
		Acid insoluble ash	AOAC 19th Edn. 2012. 942.05	0.05 – 2%

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	40 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Crude fat	AOAC 19th Edn. 2012. 2003.06	0.2 – 30%
		Crude protein	AOAC 19th Edn. 2012. 954.01	0.2 – 30%
		Crude fibre	AOAC 19th Edn. 2012. 962.09	0.2 – 25%
19	Food products including dairy, complimentary foods, infant food, fruit base products, vitamin base foods, agri products, marine and meat products	<i>Vitamins</i> – Fat Soluble A- (Retinol & β carotene) D- (Cholecalciferol & Ergocalciferol) E- (Alpha & Beta tocopherol) Thiamine Vit. B1 Riboflavin Vit. B2 Pyridoxine Vit. B6 Ascorbic acid Vit. C Folic acid Cyanocobalamine B12 Niacin [Nicotinic acid] Pantothenic acid Biotin Vit. H Sudan I – IV	In house validated Method STP/INS/052 (Issue Date 17.06.2013)	0.05 – 15 mg/100g 0.05 – 15 mg/100g 0.05 – 50 mg/100g 0.05 – 30mg/100g 0.05 – 30mg/100g 0.05 – 30mg/100g 0.05 – 200mg/100g 0.05 – 30mg/100g 0.5 – 50µg/100g 0.05 – 30mg/100g 0.05 – 30mg/100g 0.05 – 10 mg/100g 0.1 – 100.0 mg/kg
		<i>Aflatoxins</i> - B1 G1 B2 G2	In house validated Method STP/INS/037 (Issue Date 17.06.2013)	1 – 50 µg/kg 1 – 50 µg/kg 1 – 50 µg/kg 1 – 50 µg/kg
		Ochratoxin A	In house validated Method STP/INS/046 (Issue Date 17.06.2013)	0.04 – 50 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	41 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aflatoxin M1	In house validated Method STP/INS/035 (Issue Date 17.06.2013)	0.05- 10 µg/kg
		Patulin	In house validated Method STP/INS/055 (Issue Date 17.06.2013)	10 -100 µg/kg
		Dietary fibre	AOAC 19th Edn. 2012. 985.29	1 – 50%
		Toxic Metals -Lead Cadmium Mercury Chromium Arsenic	In house validated Method STP/INS/053 (Issue Date 17.06.2013)	0.02–100 mg/kg
		Minerals - Tin Nickel Zinc Sodium Potassium Chloride Calcium Iron Iodine Magnesium Manganese Phosphorous Selenium Copper	In house validated Method STP/INS/054 (Issue Date 17.06.2013)	0.05 – 20.00mg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	43 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Azadiractin		5-1000 µg/kg
		Azoxystrobin		5-1000 µg/kg
		Benalaxyl		5-1000 µg/kg
		Bendiocarb		5-1000 µg/kg
		Benfluralin		5-1000 µg/kg
		Benfuracarb		5-1000 µg/kg
		Benomyl		5-1000 µg/kg
		Bifenazate		5-1000 µg/kg
		Bifenthrin		5-1000 µg/kg
		Bitertanol		5-1000 µg/kg
		Buprofezin		5-1000 µg/kg
		Butachlor		5-1000 µg/kg
		Captafol		5-1000 µg/kg
		Captan		5-1000 µg/kg
		Carbaryl		5-1000 µg/kg
		Carbendazim [sum of benomyl and carbendazim expressed as carbendazim)		5-1000 µg/kg
		Carbofuran, 3 hydroxy carbofuran		5-1000 µg/kg
		Carbosulfan		5-1000 µg/kg
		Carboxin		5-1000 µg/kg
		Chlorantraniliprole		5-1000 µg/kg
		Cartap HCl		5-1000 µg/kg
		Chlorfenapyr		5-1000 µg/kg
		Chlordane (sum of Cis and Trans)		5-1000 µg/kg
		Chlorfenvinphos		5-1000 µg/kg
		Chlormequat Chloride (Int.std d4-chlormequat)		5-1000 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	44 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chlorothalonil		5-1000 µg/kg
		Chlorpyrifos		5-1000 µg/kg
		Chlorpyrifos-methyl		5-1000 µg/kg
		Clothianidin		5-1000 µg/kg
		Cyfluthrin mixture of isomers		5-1000 µg/kg
		Cypermethrin (sum of isomers)		5-1000 µg/kg
		Cymoxanil		5-1000 µg/kg
		Dazomet		5-1000 µg/kg
		DDT and isomers (4,4 DDT & 2,4 DDT)		5-1000 µg/kg
		Deltramethrin [Cis and trans Deltamethrin)		5-1000 µg/kg
		Diazinon		5-1000 µg/kg
		Dichlorvos		5-1000 µg/kg
		Dicofol (sum of PP and OP isomers)		5-1000 µg/kg
		Difenoconazole		5-1000 µg/kg
		Difenthiuron		5-1000 µg/kg
		Diflubenzuron		5-1000 µg/kg
		Dimethoate (sum of dimethoate and omethoate)		5-1000 µg/kg
		Dimethomorph		5-1000 µg/kg
		Diquat		5-1000 µg/kg
		Dinocap / Meptyl Dinocap		5-1000 µg/kg
		Hydrolyzed products		
		Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb & Ziram as CS2)		5-1000 µg/kg
		Dithianon		5-1000 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	45 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Diuron		5-1000 µg/kg
		Dodine		5-1000 µg/kg
		Edifenphos		5-1000 µg/kg
		Emamectin, Benzoate B1 a		5-1000 µg/kg
		Endosulfan – alpha,beta and sulfate		5-1000 µg/kg
		Endrin		5-1000 µg/kg
		Ethephon		5-1000 µg/kg
		Ethion		5-1000 µg/kg
		Etofenprox		5-1000 µg/kg
		Etrimphos		5-1000 µg/kg
		Famoxadone		5-1000 µg/kg
		Fenamidone		5-1000 µg/kg
		Fenarimol		5-1000 µg/kg
		Fenazaquine		5-1000 µg/kg
		Fentirothion		5-1000 µg/kg
		Fenobucarb		5-1000 µg/kg
		Fenpropathrin		5-1000 µg/kg
		Fenpyroximate		5-1000 µg/kg
		Fenthion		5-1000 µg/kg
		Fenvalerate and Esfenvalerate sum of RR and SS isomers		5-1000 µg/kg
		Fenvalerate and Esfenvalerate sum of Rs and SR isomers		5-1000 µg/kg
		Fipronil and Fipronil sulfone		5-1000 µg/kg
		Forchlorfenuron		5-1000 µg/kg
		Flubendiamide		5-1000 µg/kg
		Flufenacet		5-1000 µg/kg
		Flufenoxuron		5-1000 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	46 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Flufenzine		5-1000 µg/kg
		Flusilazole		5-1000 µg/kg
		Fosetyl – Al		5-1000 µg/kg
		Gibberellic Acid		5-1000 µg/kg
		Glufosinate ammonium		5-1000 µg/kg
		Glyphosate		5-1000 µg/kg
		Heptachlor		5-1000 µg/kg
		Heptachlor epoxide isomer – B		5-1000 µg/kg
		Hexachlorocyclohexane (HCH, sum of isomers alpha & beta)		5-1000 µg/kg
		Hexaconazole		5-1000 µg/kg
		Hexythiazox		5-1000 µg/kg
		Homobrassinolide		5-1000 µg/kg
		Hydrogen cyanamide		5-1000 µg/kg
		Imidacloprid		5-1000 µg/kg
		Indoxacarb (sum of isomers S & R)		5-1000 µg/kg
		Iodosulfuron methyl		5-1000 µg/kg
		Iprobenfos		5-1000 µg/kg
		Iprodione		5-1000 µg/kg
		Iprovalicarb		5-1000 µg/kg
		Isoprothiolane		5-1000 µg/kg
		Isoproturon		5-1000 µg/kg
		Kresoxim methyl		5-1000 µg/kg
		Lambda Cyhalothrin		5-1000 µg/kg
		Lindane		5-1000 µg/kg
		Linuron		5-1000 µg/kg
		Lufenuron		5-1000 µg/kg
		Malathion (sum of Malathion and malaoxon)		5-1000 µg/kg
		Mandipropamid		5-1000 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	47 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Mepiquat		5-1000 µg/kg
		Metala chlor		5-1000 µg/kg
		Metalaxyl and Metalaxyl M		5-1000 µg/kg
		Methamidophos		5-1000 µg/kg
		Methomyl and Thiodicarb		5-1000 µg/kg
		Metribuzin		5-1000 µg/kg
		Milbemectin A3 & A4		5-1000 µg/kg
		Monocrotophos		5-1000 µg/kg
		Myclobutanil		5-1000 µg/kg
		Novaluron		5-1000 µg/kg
		Omethoate (sum of dimethoate & omethoate)		5-1000 µg/kg
		Oxadiazon		5-1000 µg/kg
		Oxycarboxin		5-1000 µg/kg
		Oxydemeton methyl		5-1000 µg/kg
		Demeton S-Methyl sulfone		5-1000 µg/kg
		Oxyfluorfen		5-1000 µg/kg
		Pacllobutrazol		5-1000 µg/kg
		Paraquat		5-1000 µg/kg
		Parathion		5-1000 µg/kg
		Parathion Methyl and Paraxon Methyl		5-1000 µg/kg
		Penconazole		5-1000 µg/kg
		Pencycuron		5-1000 µg/kg
		Pendimethalin		5-1000 µg/kg
		Permethrin		5-1000 µg/kg
		Phenthoate		5-1000 µg/kg
		Phorate		5-1000 µg/kg
		Phorate Sulfone		5-1000 µg/kg
		Phosalone		5-1000 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	48 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Phosphamidon		5-1000 µg/kg
		Primiphos Methyl		5-1000 µg/kg
		Profenophos		5-1000 µg/kg
		Propanil		5-1000 µg/kg
		Propargite		5-1000 µg/kg
		Propetamophos		5-1000 µg/kg
		Propiconazole		5-1000 µg/kg
		Propoxur		5-1000 µg/kg
		Pyraclostrobin		5-1000 µg/kg
		Pyriproxyfen		5-1000 µg/kg
		Quinalphos		5-1000 µg/kg
		Simazine		5-1000 µg/kg
		Spinosad		5-1000 µg/kg
		(sum of spinosad A & D)		
		Spiromesifen		5-1000 µg/kg
		Tau fluvalinate		5-1000 µg/kg
		Tebuconazole		5-1000 µg/kg
		Temephos		5-1000 µg/kg
		Thiachloprid		5-1000 µg/kg
		Thiobencarb		5-1000 µg/kg
		Thiodicarb		5-1000 µg/kg
		Thiometon		5-1000 µg/kg
		Thiophanate Methyl		5-1000 µg/kg
		Transfluthrin		5-1000 µg/kg
		Triadimefon		5-1000 µg/kg
		Triadimenol		5-1000 µg/kg
		Triazophos		5-1000 µg/kg
		Trichlorfon		5-1000 µg/kg
		Tricyclazole		5-1000 µg/kg
		Triademorph		5-1000 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	49 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Trifloxystrobin		5-1000 µg/kg
		Trifluralin		5-1000 µg/kg
		Uracil		5-1000 µg/kg
21	Dairy products	<i>Antibiotic residue</i> Chloramphenicol	Inhouse validated method STP/INS/026 (Issue Date 17.06.2013)	0.15 – 0.75 µg/kg
		<i>Nitrofurans/ Metabolites</i> AOZ AMOZ AHD SEM	USFDA CFSAN (2004) / In-house Validated Method STP/INS/027 (Issue Date 17.06.2013)	0.5 – 3.0 µg/kg
		<i>Nitroimidazoles</i> Ronidazole Metronidazole	In-house Validated Method STP/INS/028 (Issue Date 17.06.2013)	0.5 – 10 µg/kg
		<i>Aminoglycosides-</i> Dihydrostreptomycin Streptomycin	In-house Validated Method STP/INS/030 (Issue Date 17.06.2013)	50 – 500 µg/kg
		Enrofloxacin	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	25 – 250 µg/kg
		Erythromycin	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	10 – 100 µg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	50 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Gentamycin	In-house Validated Method STP/INS/030	25 – 250 µg/kg
		Kanamycin	(Issue Date 17.06.2013)	50 – 300 µg/kg
		Neomycin		500 – 3000 µg/kg
		Spectinomycin		50 – 500 µg/kg
		Spiramycin	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	50 – 500 µg/kg
		<i>Sulfonamides</i>	AOAC Chapter 23, 19 th Edn. 2012 -	2.5 – 30.0 µg/kg
		Sulfadiazine	982.40 / 992.21/	
		Sulfamethizole	In-house Validated Method	
		Sulfapyridine	STP/INS/040	
		Sulfamerazine	(Issue Date 17.06.2013)	
		Sulfadoxine		
		Sulfadimidine		
		Sulfadimethoxine		
		Sulfamethoxypyridazine		
		Sulfathiazole		
		Sulfanilamide		
		<i>Tetracyclines and its Epimers</i>		
		Chlorotetracycline	AOAC Chapter 23, 19 th Edn. 2012 -	25 – 250 µg/kg
		Oxytetracycline	995.09/	
		Tetracycline	In-house Validated Method	
		Doxycycline	STP/INS/041 (Issue Date 17.06.2013)	

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	51 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Thiamphenicol	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	10-100 µg/kg
		Tilmicosin		10-100 µg/kg
		Total residual antibiotics (as beta lactum)	In-house Validated Method STP/INS/029 (Issue Date 17.06.2013)	Qualitative
		Pencillin-G		Qualitative
		Ampicillin		Qualitative
		Amoxicillin		Qualitative
		Cefacetril		Qualitative
		Cefalexin		Qualitative
		Cefalonium		Qualitative
		Cefaperazon		Qualitative
		Cefapirin		Qualitative
		Ceftiofur		Qualitative
		Cloxacillin		Qualitative
		Difoloxacillin		Qualitative
		Oxacillin		Qualitative
		Nafcillin		Qualitative
		Trimethoprim	In-house Validated Method STP/INS/040 (Issue Date 17.06.2013)	2.5-30.0
		Tylosin	AOAC Chapter 23, 19 th Edn.2012 - 995.09/ In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	10-100

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	52 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<i>Benzimidazoles and Probenzimidazoles –</i> Albendazole Fenbendazole	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	25 – 250 3 – 30
		Ivermectin	In-house Validated Method STP/INS/031 (Issue Date 17.06.2013)	5 – 60
		Morantel	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	5 – 100
		Phenylbutazone	In-house Validated Method STP/INS/036 (Issue Date 17.06.2013)	5 – 250
		Pesticides - Lindane Endosulfan Chlordane Heptachlor Methoxychlor Aldrin Dieldrin Dichlorvos Ethion Fenthion Diazinon Malathion Methyl parathion Phosalone	In-house validated method STP/INS/033 (Issue Date 17.06.2013)	0.25 – 2.0 12.5 – 100 0.5 – 4.0 1.0 – 8.0 2.5 – 20 0.75 – 6.0 0.75 – 6.0 2.5 – 20 2.5 – 20 2.5 – 20 2.5 – 20 5.0 – 40.0 5.0 – 40.0 2.5 – 20

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	53 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Melamine	In-house Validated Method STP/INS/032 (Issue Date 17.06.2013)	0.5 – 10
22	Egg and Egg Products, Feed	<i>Antibiotic residue</i> Chloramphenicol	Inhouse validated method STP/INS/014 (Issue Date 17.06.2013)	0.15 – 0.75
		<i>Nitrofurantoin/ Metabolites</i> AOZ AMOZ AHD SEM	USFDA CFSAN (2004) / In-house Validated Method STP/INS/015 (Issue Date 17.06.2013)	0.5 – 3.0
		Dimetridazole Iprnidazole Metronidazole Ronidazole	In house validated method STP/INS/016 (Issue Date 17.06.2013)	0.5 – 5.0
		Amoxicillin Ampicillin	In house validated method STP/INS/024 (Issue Date 17.06.2013)	2.5 –30.0
		Colistin	In house validated method STP/INS/022 (Issue Date 17.06.2013)	100 – 600
		Doxycycline	In house validated method STP/INS/039 (Issue Date 17.06.2013)	2.5 – 30.0

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	54 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Enrofloxacin	In house validated method STP/INS/024 (Issue Date 17.06.2013)	2.5 – 30.0
		Ciprofloxacin		
		Erythromycin	In house validated method STP/INS/024 (Issue Date 17.06.2013)	5 – 250
		Lincomycin		
		Neomycin		
		Spectinomycin		
		<i>Sulfonamides</i>	AOAC Chapter 23, 19 th Edn.2012 - 982.40 / 992.21/ In-house Validated Method STP/INS/038 (Issue Date 17.06.2013)	2.5 – 30.0
		Sulfadiazine		
		Sulfamethizole		
		Sulfapyridine		
		Sulfamerazine		
		Sulfadimidine		
		Sulfadimethoxine		
		Sulfamethoxyipyridazine		
		Sulfathiazole		
		Sulfanilamide		
		Sulfadoxine		
		Trimethoprim		
		Tetracyclines and its Epimers	AOAC Chapter 23, 18 th Edn. 2012 - 995.09/ In-house Validated Method STP/INS/039 (Issue Date 17.06.2013)	25 – 400
		Chlorotetracycline		
		Oxytetracycline		
		Tetracycline		

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 55 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Tylosin	In-house Validated Method STP/INS/024 (Issue Date 17.06.2013)	50 – 400
		Tiamulin	In-house Validated Method STP/INS/024 (Issue Date 17.06.2013)	250 – 3000
		Boscalid	In house validated method STP/INS/024 (Issue Date 17.06.2013)	10 – 100
		Cyromazine	In-house Validated Method STP/INS/020 (Issue Date 17.06.2013)	50 – 350
		Flubendazole	In-house Validated Method STP/INS/024 (Issue Date 17.06.2013)	100 – 800
		Lasalocid	In-house Validated Method STP/INS/023 (Issue Date 17.06.2013)	50 – 300
		Piperazine	In-house Validated Method STP/INS/025 (Issue Date 17.06.2013)	500 – 6000
		Salinomycin	In-house Validated Method STP/INS/024 (Issue Date 17.06.2013)	0.75 – 9.0

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
 F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
 Tamil Nadu
Accreditation Standard ISO/IEC 17025: 2005
Discipline Chemical Testing **Issue Date** 11.01.2014
Certificate Number T-0025 **Valid Until** 10.01.2016
Last Amended on - **Page** 56 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Diclazuril	In-house Validated Method STP/INS/024 (Issue Date 17.06.2013)	0.5 – 5.0
		Nicarbazine	In-house Validated Method STP/INS/024 (Issue Date 17.06.2013)	50.0-250.0
		Melamine	In-house Validated Method SL STP/INS/019 (Issue Date 17.06.2013)	1.0 – 10
		Pesticides -		
		Aldrin	In-house validated method	2.5 – 20
		Dieldrin	STP/INS/021	2.5 – 20
		Heptachlor	(Issue Date 17.06.2013)	2.5 – 20
		Heptachlor epoxide		2.5 – 20
		DDT		2.0 – 16
		Dicofol		12.5 – 100
		Alpha Endosulfan		6.0– 50
		Endosulfan Sulphate		6.0– 50
		Endrin		1.25– 10
		HCH [all isomers]		5.0 – 40
		Alpha HCH		
		Beta HCH		2.5 – 20
		Gamma HCH		2.5 – 20
		Methoxychlor		2.5 – 20
		PCB		1.0 – 10

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	57 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
23	Marine & Marine products – Shrimp / Crustaceans	<i>Antibiotic residue</i> Chloramphenicol	In-house validated method STP/INS/001 (Issue Date 17.06.2013)	0.15 – 0.75
		<i>Nitrofurans</i> Furaltadone Furazolidone Nitrofurantoin Nitrofurazone	In-house validated method STP/INS/006 (Issue Date 17.06.2013)	0.5 – 10.0
		<i>Nitrofurans/ Metabolites</i> AOZ AMOZ AHD SEM	USFDA CFSAN (2004) / In-house Validated Method STP/INS/002 (Issue Date 17.06.2013)	0.5 – 3.0
		<i>Nitroimidazoles</i> Metronidazole Dimetridazole Ronidazole Ipronidazole HMMNI	In-house Validated Method STP/INS/003 (Issue Date 17.06.2013)	0.5 – 5.0
		<i>Sulfonamides</i> Sulfadiazine Sulfamethizole Sulfapyridine Sulfamerazine Sulfadoxine Sulfadimidine Sulfadimethoxine Sulfamethoxypyridazine Sulfathiazole Sulfanilamide Trimethoprim	AOAC Chapter 23, 19 th Edn. 2012 - 982.40 / 992.21/ In-house Validated Method STP/INS/004 (Issue Date 17.06.2013)	25 – 250

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	58 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<i>Tetracyclines and its Epimers</i>	In-house Validated Method	25 – 250
		Chlorotetracycline	STP/INS/005 (Issue Date	
		Oxytetracycline	17.06.2013)	
		Tetracycline		
		Malachite green	In-house Validated Method	1.0-6.0
		Leuco Malachite Green	STP/INS/008 (Issue Date 17.06.2013)	
		Difloxacin	In-house Validated Method	100-600
		Danofloxacin	STP/INS/007	25-250
		Enrofloxacin	(Issue Date 17.06.2013)	25-250
		Ciprofloxacin		25-250
		Sarafloxacin		25-250
		Nalidixic acid		25-250
		Marbofloxacin		25-250
		Flumequine		100-800
		Oxolinic acid		25-250
24	Marine & Marine products – Shrimp / Crustaceans	Pesticides		
		HCB	In-house validated	0.01 – 10.00 mg/kg
		Chlordane	method STP/INS/009	0.01 – 10.00 mg/kg
		Aldrin	(Issue Date 17.06.2013)	0.01 – 10.00 mg/kg
		Dieldrin		0.01 – 10.00 mg/kg
		Endrin		0.01 – 10.00 mg/kg
		DDT [all isomers]		0.01 – 10.00 mg/kg
		Heptachlor		
25	Tea and Coffee	Pesticide Residues		
		Dicofol	In-house validated	0.005 – 10.00 mg/kg
		Ethion	method STP/INS/043	0.005 – 10.00 mg/kg
		Quinalphos	(Issue Date 17.06.2013)	0.005 – 10.00 mg/kg
		Glyphosate		0.005 – 10.00 mg/kg
		Fenazaquin		0.005 – 10.00 mg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	59 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Glufosinate Ammonium		0.005 – 10.00 mg/kg
		Propargite		0.005 – 10.00 mg/kg
		Ethion		0.005 – 10.00 mg/kg
		Monocrotophos		0.005 – 10.00 mg/kg
26	Cereals	Aldrin	In-house validated method	0.005 – 10.00 mg/kg
		Dieldrin	STP/INS/044	0.005 – 10.00 mg/kg
		Carbaryl	(Issue Date 17.06.2013)	0.005 – 10.00 mg/kg
		Chlordane (sum of Cis and Trans)		0.005 – 10.00 mg/kg
		Diazinon		0.005 – 10.00 mg/kg
		Dichlorvos		0.005 – 10.00 mg/kg
		Fentirothion		0.005 – 10.00 mg/kg
		Heptachlor		0.005 – 10.00 mg/kg
		Hydrogen cyanamide		0.005 – 10.00 mg/kg
		Hydrogen Phosphide		0.005 – 10.00 mg/kg
		Inorganic Bromide		0.005 – 10.00 mg/kg
		Malathion (sum of Malathion & malaaxon)		0.005 – 10.00 mg/kg
		Phosphamidon		0.005 – 10.00 mg/kg
		Pyrethrin		0.005 – 10.00 mg/kg
		Chlorfenvinphos		0.005 – 10.00 mg/kg
		Chlorpyrifos		0.005 – 10.00 mg/kg
		Ethion		0.005 – 10.00 mg/kg
		Monocrotophos		0.005 – 10.00 mg/kg
		Paraquat		0.005 – 10.00 mg/kg
		Trichlorfon		0.005 – 10.00 mg/kg
		Thiometon		0.005 – 10.00 mg/kg
		Carbendazim [sum of benomyl & carbendazim expressed as carbendazim)		0.005 – 10.00 mg/kg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	60 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Carbofuran, 3 hydroxy carbofuran		0.005 – 10.00 mg/kg
		2, 4-D Benomyl Deltamethrin [Cis Deltamethrin] Dithiocarbamates (Mancozeb, Maneb, Propineb, Metiram, Thiram, Zineb & Ziram as CS2) Fenthion sulfoxide and Fenthion sulfone Oxydemeton methyl Phenthoate Phorate Phorate Sulfone Primiphos Methyl		0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg 0.005 – 10.00 mg/kg

V. DRUGS & PHARMACEUTICALS

1	General Tests	.	Indian Pharmacopoeia 2010	
		Description	I.P. 2010, Vol 1 Pg 14	Qualitative
		Identification by color test, UV & IR	I.P. 2010, Vol 1 Pg 14	Qualitative
		Disintegration Test	I.P. 2010, Vol 1, Pg 187	10 sec to 3 hrs
		Weight per ml	I.P. 2010, Vol 1, Pg 174	0.1 to 2g
		pH	I.P. 2010, Vol 1 Pg 146	1 to 14
		Optical rotation	I.P. 2010, Vol 1, Pg 143	1° / 1° to 360°
2	Albendazole Tablets	Identification	I.P. 2010, Vol 2 Pg 781 (TLC)	Present / Absent
		Assay	I.P. 2010, Vol 2 Pg 781 (UV)	100 to 520 mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	61 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3	Alprazolam Tablets	Identification Dissolution Assay Uniformity of Content	I.P. 2010, Vol 2 Pg 787 (HPLC) I.P. 2010, Vol 2 Pg 787 (HPLC) I.P. 2010, Vol 2 Pg 787 (HPLC) I.P. 2010, Vol 2 Pg 787 (HPLC)	Present / Absent 0.075 – 5mg 0.075 – 5mg 0.075 – 5mg
4	Amoxicillin Dispersible Tablet	Identification Assay	I.P. 2010, Vol 2 Pg 817 (IR) I.P. 2010, Vol 2 Pg 817 (HPLC)	Present / Absent 37.5 – 650mg
5	Amoxicillin Capsules	Identification Dissolution Assay	I.P. 2010, Vol 2 Pg 813 (HPLC) I.P. 2010, Vol 2 Pg 813 (UV) I.P. 2010, Vol 2 Pg 814 (HPLC)	Present / Absent 80 – 740mg 80 – 740mg
6	Ampicillin Capsules	Identification A Identification B Assay Dissolution	I.P. 2010, Vol 2 Pg 823 (IR) I.P. 2010, Vol 2 Pg 823 (HPLC) I.P. 2010, Vol 2 Pg 824 (HPLC) I.P. 2010, Vol 2 Pg 823 (UV)	Present / Absent Present / Absent 80mg - 740mg 80mg - 740mg
7	Ampicillin Injection	Identification A Identification B Appearance of solution pH SOR N,N-Dimethylaniline, Dichloromethane Water Assay	I.P. 2010, Vol 2 Pg 826 (IR) I.P. 2010, Vol 2 Pg 826 (HPLC) I.P. 2010, Vol 2 Pg 826 (UV) I.P. 2010, Vol 2 Pg 826 I.P. 2010, Vol 2 Pg 826 I.P. 2010, Vol 2 Pg 826 (GC) I.P. 2010, Vol 2 Pg 826 (GC) I.P. 2010, Vol 2 Pg 826 I.P. 2010, Vol 2 Pg 826 (HPLC)	Present / Absent Present / Absent Present / Absent 1-14 1° / 1° to 360° 1- 20 ppm 0.01 – 0.2% 0.01 – 50% 50 – 1300 mg
8	Cefotaxime Sodium injection	Identification A Identification B pH Water Assay	I.P. 2010, Vol 2 Pg 1017 (HPLC) I.P. 2010, Vol 2 Pg 1017 I.P. 2010, Vol 2 Pg 1017 I.P. 2010, Vol 2 Pg 1017 I.P. 2010, Vol 2 Pg 1017 (HPLC)	Present / Absent Present / Absent 1-14 0.01 – 50% 75 – 2600 mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	62 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
9	Cloxacillin Capsules	Identification A Identification B Dissolution Assay	I.P. 2010, Vol 2 Pg 1124 (IR) I.P. 2010, Vol 2 Pg 1124 I.P. 2010, Vol 2 Pg 1124(UV) I.P. 2010, Vol 2 Pg 1124 (HPLC)	Present / Absent Present / Absent 75 – 650 mg 75 – 650 mg
10	Ciprofloxacin Hydrochloride Tablets	Identification A Identification B Dissolution Assay	I.P. 2010, Vol 2 Pg 1094 (HPLC) I.P. 2010, Vol 2 Pg 1094 (TLC) I.P. 2010, Vol 2 Pg 1094 (UV) I.P. 2010, Vol 2 Pg 1095 (HPLC)	Present / Absent Present / Absent 80-1000mg 80-1000mg
11	Cetirizine Tablets	Identification Dissolution Related Substances Uniformity of content Assay	I.P. 2010, Vol 2 Pg 1039 (HPLC) I.P. 2010, Vol 2 Pg 1039 (UV) I.P. 2010, Vol 2 Pg 1039(HPLC) I.P. 2010, Vol 2 Pg 1040 (HPLC) I.P. 2010, Vol 2 Pg 1040 (HPLC)	Present / Absent 3-26mg Present / Absent 3-26mg 3 – 26 mg
12	Cephalexin Capsules	Identification A Identification B Related Substances Dissolution Water Assay	I.P. 2010, Vol 2 Pg 1032 (IR) I.P. 2010, Vol 2 Pg 1032 (HPLC) I.P. 2010, Vol 2 Pg 1032 (TLC) I.P. 2010, Vol 2 Pg 1033 (UV) I.P. 2010, Vol 2 Pg 1033 I.P. 2010, Vol 2 Pg 1033 (HPLC)	Present / Absent Present / Absent Present / Absent 75 – 650 mg 0.01 – 50% 75 – 650 mg
13	Dextrose Injection	Identification A Identification B pH 5- Hydroxymethyl furfural and Related substances Heavy Metals Assay	I.P. 2010, Vol 2 Pg 1191 I.P. 2010, Vol 2 Pg 1191 (SOR) I.P. 2010, Vol 2 Pg 1191 I.P. 2010, Vol 2 Pg 1191 (UV) I.P. 2010, Vol 2 Pg 1191 I.P. 2010, Vol 2 Pg 1191 (SOR)	Present / Absent Present / Absent 1 – 14 Present / Absent Present / Absent 1.5 – 65gm

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	63 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
14	Dexamethasone Tablets	Identification A	I.P. 2010, Vol 2 Pg 1173 (IR)	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1173 (TLC)	Present / Absent
		Identification C	I.P. 2010, Vol 2 Pg 1173	Present / Absent
		Related Substances	I.P. 2010, Vol 2 Pg 1173 (HPLC)	Present / Absent
		Uniformity of content	I.P. 2010, Vol 2 Pg 1173 (HPLC)	0.15 – 0.65mg
		Assay	I.P. 2010, Vol 2 Pg 1173 (HPLC)	0.15 – 0.65mg
15	Diazepam Injection	Identification A	I.P. 2010, Vol 2 Pg 1196 (TLC)	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1196 (UV)	Present / Absent
		pH	I.P. 2010, Vol 2 Pg 1196	1-14
		Assay	I.P. 2010, Vol 2 Pg 1196 (UV)	1.5 – 13 mg
16	Diazepam Tablets	Identification A	I.P. 2010, Vol 2 Pg 1196 (TLC)	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1196 (UV)	Present / Absent
		Related Substances & Decomposition products	I.P. 2010, Vol 2 Pg 1196 (TLC)	Present / Absent
		Dissolution	I.P. 2010, Vol 2 Pg 1196 (UV)	0.6 – 13mg
		Uniformity of content	I.P. 2010, Vol 2 Pg 1196 (UV)	0.6 – 13mg
		Assay	I.P. 2010, Vol 2 Pg 1196 (UV)	0.6 – 13mg
17	Diclofenac Sodium Injection	Identification	I.P. 2010, Vol 2 Pg 1200 (TLC)	Present / Absent
		pH	I.P. 2010, Vol 2 Pg 1200	1-14
		Assay	I.P. 2010, Vol 2 Pg 1200 (HPLC)	7.5 – 32.5mg
18	Diclofenac sodium Tablets	Identification	I.P. 2010, Vol 2 Pg 1200 (TLC)	Present / Absent
		Related Substances	I.P. 2010, Vol 2 Pg 1200 Addendum 2012 Pg 2900 (HPLC)	Present / Absent
		Disintegration Time (Buffer Stage)	I.P. 2010, Vol 2, Pg 917	1 Sec – 3 Hrs
		Assay	Addendum 2012 Pg 2900 (HPLC)	7.5 – 65mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	64 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
19	Dicyclomine Hydrochloride Tablets	Identification A Identification B Identification C Related Substances Assay	I.P. 2010, Vol 2 Pg 1206 (IR) I.P. 2010, Vol 2 Pg 1206 I.P. 2010, Vol 2 Pg 1206 I.P. 2010, Vol 2 Pg 1206 (TLC) I.P. 2010, Vol 2 Pg 1206 (Titration)	Present / Absent Present / Absent Present / Absent Present / Absent 6 – 26 mg
20	Erythromycin Stearate Tablets	Identification A Identification B Identification C Disintegration Time	I.P. 2010, Vol 2 Pg 1292 (IR) I.P. 2010, Vol 2 Pg 1292 I.P. 2010, Vol 2 Pg 1292 I.P. 2010, Vol 2, Pg 1292	Present / Absent Present / Absent Present / Absent 1 Sec – 3 Hrs
21	Enalapril Maleate Tablets	Identification Uniformity of content Disintegration Time Assay	I.P. 2010, Vol 2 Pg 1275 (HPLC) I.P. 2010, Vol 2 Pg 1275 (HPLC) I.P. 2010, Vol 1, Pg 187 I.P. 2010, Vol 2 Pg 1276 (HPLC)	Present / Absent 0.75 – 26 mg 1 Sec – 3 Hrs 0.75 – 26 mg
22	Ferrous Sulphate Tablets	Identification A Identification B Disintegration Time Assay	I.P. 2010, Vol 2 Pg 1346 I.P. 2010, Vol 2 Pg 1346 I.P. 2010, Vol 2 Pg 187 I.P. 2010, Vol 2 Pg 1346 (Titration)	Present / Absent Present / Absent 1 Sec – 3 Hrs 18 – 78mg
23	Folic Acid Tablets	Identification A Identification B Uniformity of content Assay	I.P. 2010, Vol 2 Pg 1385 (TLC) I.P. 2010, Vol 2 Pg 1386 I.P. 2010, Vol 2 Pg 1386 (HPLC) I.P. 2010, Vol 2 Pg 1386 (HPLC)	Present / Absent Present / Absent 1.5 – 6.5 mg 1.5 – 6.5 mg
24	Fruzemide Tablets	Identification A Identification B Dissolution Assay	I.P. 2010, Vol 2 Pg 1393 (UV) I.P. 2010, Vol 2 Pg 1393 I.P. 2010, Vol 2 Pg 1393 (UV) I.P. 2010, Vol 2 Pg 1394 (UV)	Present / Absent Present / Absent 6 – 52 mg 6 – 52 mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	65 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
25	Glibenclamide Tablets	Identification A	I.P. 2010, Vol 2 Pg 1415 (UV)	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1415 (TLC)	Present / Absent
		Related Substances	I.P. 2010, Vol 2 Pg 1415 (TLC)	Present / Absent
		Disintegration Time	I.P. 2010, Vol 1, Pg 187	1 Sec – 3 Hrs
		Uniformity of content Assay	I.P. 2010, Vol 2 Pg 1415 (UV) I.P. 2010, Vol 2 Pg 1415 (HPLC)	0.75 – 6.5 mg 0.75 – 6.5 mg
26	Glipizide Tablets	Identification A	I.P. 2010, Vol 2 Pg 1422	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1422 (UV)	Present / Absent
		Related Substances	I.P. 2010, Vol 2 Pg 1422 (TLC)	Present / Absent
		Disintegration Time	I.P. 2010, Vol 1, Pg 187	1 Sec – 3 Hrs
		Assay	I.P. 2010, Vol 2 Pg 1422 (UV)	1.5 – 6.5mg
27	Glimepiride Tablets	Identification	I.P. 2010, Vol 2 Pg 1419 (HPLC)	Present / Absent
		Dissolution	I.P. 2010, Vol 2 Pg 1419 (HPLC)	0.3 mg – 2.60 mg
		Related Substances	I.P. 2010, Vol 2 Pg 1419 (HPLC)	Present / Absent
		Uniformity of content	I.P. 2010, Vol 2 Pg 1420 (HPLC)	0.3 – 2.60 mg
		Assay	I.P. 2010, Vol 2 Pg 1420 (HPLC)	0.3 – 2.60 mg
28	Ibuprofen Tablets	Identification A	I.P. 2010, Vol 2 Pg 1482 (IR)	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1482	Present / Absent
		Dissolution	I.P. 2010, Vol 2 Pg 1482 (UV)	60 – 780mg
		Related Substances	I.P. 2010, Vol 2 Pg 1482 (TLC)	Present / Absent
		Assay	I.P. 2010, Vol 2 Pg 1482 (Titration)	60 – 780mg
29	Metronidazole Injection	Identification A	I.P. 2010, Vol 2 Pg 1684 (IR)	Present / Absent
		Identification B	I.P. 2010, Vol 2 Pg 1685	Present / Absent
		pH	I.P. 2010, Vol 2 Pg 1685	1 – 14
		Related Substances	I.P. 2010, Vol 2 Pg 1685 (HPLC)	Present / Absent
		Assay	I.P. 2010, Vol 2 Pg 1685 (UV)	1.5 – 6.5 mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	66 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
30	Metronidazole Tablets	Identification A Identification B Identification C Dissolution Related Substances Assay	I.P. 2010, Vol 2 Pg 1686 (IR) I.P. 2010, Vol 2 Pg 1686 I.P. 2010, Vol 2 Pg 1686 I.P. 2010, Vol 2 Pg 1686 (UV) I.P. 2010, Vol 2 Pg 1686 (HPLC) I.P. 2010, Vol 2 Pg 1687 (Titration)	Present / Absent Present / Absent Present / Absent 60 – 520 mg Present / Absent 60 – 520 mg
31	Metformin Tablets	Identification A Identification B Identification C Related Substances Dissolution Assay	I.P. 2010, Vol 2 Pg 1658 (IR) I.P. 2010, Vol 2 Pg 1658 I.P. 2010, Vol 2 Pg 1658 I.P. 2010, Vol 2 Pg 1658 (HPLC) I.P. 2010, Vol 2 Pg 1659 (UV) I.P. 2010, Vol 2 Pg 1659 (UV)	Present / Absent Present / Absent Present / Absent Present / Absent 150 – 1105 mg 150 – 1105 mg
32	Norfloxacn Tablets	Identification A Identification B Dissolution Assay	I.P. 2010, Vol 3 Pg 1794 (TLC) I.P. 2010, Vol 3 Pg 1795 (HPLC) I.P. 2010, Vol 3 Pg 1795 (UV) I.P. 2010, Vol 3 Pg 1795 (HPLC)	Present / Absent Present / Absent 60 – 1040 mg 60 – 1040 mg
33	Paracetamol Syrup	Identification A Identification B 4 - Aminophenol Assay	I.P. 2010, Vol 3 Pg 1860 (TLC) I.P. 2010, Vol 3 Pg 1860 (HPLC) I.P. 2010, Vol 3 Pg 1860 (HPLC) I.P. 2010, Vol 3 Pg 1860 (HPLC)	Present / Absent Present / Absent Present / Absent 37 – 162 mg
34	Paracetamol Tablet	Identification A Identification B Related Substances Dissolution Assay	I.P. 2010, Vol 3 Pg 1861 (IR) I.P. 2010, Vol 3 Pg 1861 (HPLC) I.P. 2010, Vol 3 Pg 1861 (HPLC) I.P. 2010, Vol 3 Pg 1861 (UV) I.P. 2010, Vol 3 Pg 1862 (UV)	Present / Absent Present / Absent Present / Absent 75 – 650 mg 75 – 650 mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	67 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
35	Compound Sodium Lactate	Identification A Identification B Identification C Identification D pH Heavy Metals 5-Hydroxymethylfurfural and Related substances Assay	I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 I.P. 2010, Vol 3 Pg 2126 (UV) I.P. 2010, Vol 3 Pg 2126 (Titration) Sodium & Potassium (AAS)	Present / Absent Present / Absent Present / Absent Present / Absent 1 – 14 Present / Absent Present / Absent 0.27 -0.32% w/v Na 0.019-0.022% w/v K 0.37-0.42% w/v Cl 0.025-0.029% w/v CaCl ₂ 2H ₂ O 0.23-0.28% w/v as lactate
36	Sodium Chloride Injection	Identification pH Heavy Metals Assay	I.P. 2010, Vol 3 Pg 2116 I.P. 2010, Vol 3 Pg 2116 I.P. 2010, Vol 3 Pg 2116 I.P. 2010, Vol 3 Pg 2116 (Titration)	Present / Absent 1-14 Present / Absent 0.27 % - 1.17 %
37	Trimethoprim and Sulphamethoxazole oral Suspension (Co-trimoxazole)	Identification pH Assay Trimethoprim Sulphamethoxazole	I.P. 2010, Vol 3 Pg 2265 (TLC) I.P. 2010, Vol 3 Pg 2265 I.P. 2010, Vol 3 Pg 2265 (UV)	Present / Absent 1-14 12 – 104 mg 60 – 520 mg
38	Trimethoprim and Sulphame-thoxazole (Co-trimoxazole) Tablets	Identification A Identification B Identification C Disintegration Time Assay Trimethoprim Sulphamethoxazole	I.P. 2010, Vol 3 Pg 2266 (IR) I.P. 2010, Vol 3 Pg 2266 (IR) I.P. 2010, Vol 3 Pg 2266 (TLC) I.P. 2010, Vol 2, Pg 917 I.P. 2010, Vol 3 Pg 2267	Present / Absent Present / Absent Present / Absent 1 Sec – 3 Hrs 6 – 208 mg 30 – 1040mg

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	68 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
39	Water for injection (Sterile water for injection)	Appearance of Solution	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Acidity or Alkalinity	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Ammonium	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Calcium and Magnesium	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Heavy Metals	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Chlorides	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Nitrates	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Sulphates	I.P. 2010, Vol 3 Pg 2316	Present / Absent
		Oxidisable substances	I.P. 2010, Vol 3 Pg 2316	Present / Absent
40	Raw materials for Active Pharmaceutical Ingredients	Description	I.P. 2010, Vol 1 Pg 14	Qualitative
		Solubility	IP 2010, Vol 1 Pg 147	Qualitative
		pH	IP 2010, Vol 1 Pg 146	1.0 – 14.0
		General		
		1. Identification for reactions or Color tests,	IP 2010 , Vol 1 Pg 71	Qualitative
		2. Identification by UV- Visible,	IP 2010 , Vol 1 Pg 117	Qualitative
		3. Identification by IR	IP 2010, Vol 1 Pg 111	Qualitative
		Limit test for Arsenic	IP 2010, Vol 1 Pg 80	Qualitative
		Limit test if Lead	IP 2010, Vol 1 Pg 81	Qualitative
		Appearance of Solution	IP 2010, Vol 1 Pg 107	Qualitative
		Determination of sulphated Ash	IP 2010, Vol 1 Pg 82	0.01 – 33.3% w/w
		Loss on Drying	IP 2010, Vol 1 Pg 139	0.01 – 99.0%
		Loss on Ignition	IP 2010, Vol 1 Pg 140	0.01 – 99.0%
		Determination of water content	IP 2010, Vol 1 Pg 97	0.01 – 50%
		Specific Optical Rotation	IP 2010 , Vol 1 Pg 143	1°/1° – 360°
Assay-HPLC	IP 2010, Vol 1 Pg 129	0-130%		
Assay-UV-Visible (Spectrophotometer)	IP 2010, Vol 1 Pg 117	5 – 150 %		
Assay- Titration	IP 2010, Vol 1 Pg 147	20 – 101%		

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	69 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
VI. WATER				
1.	Water / Drinking Water Food Processed Water Swimming Pool Water / Reagent Grade Water	Colour	IS: 3025 (Part 4) :1983 (RA:2012)	1- 100 Hazen Units
		Odour	IS: 3025 (Part 5) :1983 (RA:2012)	Agreeable/ Disagreeable
		pH Value	IS: 3025 (Part 11) :1983 RA:2012)	1 -14 Units
		Taste	IS: 3025 (Part 8) :1984 (RA:2012)	Agreeable/ Disagreeable
		Turbidity (NTU)	IS: 3025 (Part 10) :1984 RA:2012)	0.5 - 500 NTU
		Total dissolved solids	IS: 3025 (Part 16) :1984 RA:2012)	1.0 – 10,000 mg/L
		Conductivity @ 25°C	IS: 3025 (Part 14) :2013	1- 50,000 µmhos/cm
		Aluminium as Al	IS: 3025 (Part 55) :2003 (RA:2009) IS:15302: 2003(RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.02 – 5.0 mg/L 0.001 – 1.0mg/L
		Ammonia as N	IS: 3025 (Part 34) :1998 RA:2009)	0.1 – 10.0mg/L
		Anionic Detergents as MBAS	IS:13428: 2005(RA:2009) – Annex K	0.1 – 5.0mg/L
		Barium as Ba	IS: 15302:2003(RA:2009) IS: 3025 (Part 2):2004 (RA:2009)	0.1 – 5.0 mg/L 0.01 – 5.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	70 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Boron as B	IS: 3025 (Part 57) :2005 (RA:2010) IS: 3025 (Part 2) :2004 (RA:2009)	0.05 – 5.0 mg/L 0.01 – 5.0 mg/L
		Calcium as Ca	IS: 3025 (Part 40) :1991 RA:2009)	1.0 – 2000 mg/L
		Chloramines' as Cl ₂	IS: 3025 (Part 26) :1986 RA:2009)	1.0 – 10.0 mg/L
		Chlorides as Cl	IS: 3025 (Part 32) :1988 RA:2009)	1-4000 mg/L
		Copper as Cu	IS: 3025 (Part 42) :1992 RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.03– 5.0 mg/L 0.01 – 5.0 mg/L
		Fluorides as F	IS: 3025 (Part 60) :2008	0.1 – 10 mg/L
		Free Residual Chlorine	IS: 3025 (Part 26) :1986 RA:2009)	0.02 – 50 mg/L
		Iron as Fe	IS: 3025 (Part 53) :2003 RA:2009) IS:15303:2003 (RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.05 –10.0 mg/L 0.01 – 10.0 mg/L
		Magnesium as Mg	IS: 3025 (Part 46) :1994 RA:2009)	1.0 – 2000 mg/L
		Manganese as Mn	IS: 3025 (Part 59) :2006 RA:2012) IS: 3025 (Part 2) :2004 (RA:2009)	0.01-5.0 mg/L
		Mineral Oil	Clause 6 of IS: 3025 (Part 39) :1991 (RA:2009) Amd 2	0.01 – 5.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	71 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrate as NO ₃	IS: 3025 (Part 34):1988 RA:2009)	0.5 – 400 mg/L
		Nitrite as NO ₂	IS: 3025 (Part 34):1988 RA:2009)	0.01 – 50.0 mg/L
		Phenolic Compound as C ₆ H ₅ OH	IS: 3025 (Part 43):1992 RA:2009)	0.001 – 5.0 mg/L
		Selenium as Se	IS: 3025 (Part 56):2003 RA:2009) IS:15303 :2003(RA:2009)	0.005 – 5.0 mg/L
		Silver as Ag	IS:13428 :2005 (RA 2009) - Annex. J IS: 3025 (Part 2):2004 (RA:2009)	0.005 – 5.0 mg/L
		Sulphate as SO ₄	IS: 3025 (Part 24):1986 RA:2009)	1.0 - 2000 mg/L
		Sulphide as H ₂ S	IS: 3025 (Part 29):1986 RA:2009)	0.04 – 10.0 mg/L
		Alkalinity as CaCO ₃ (Phenolphthalein / Methyl orange or Bicarbonate / or Carbonate / Caustic Alkalinity as CaCO ₃)	IS: 3025 (Part 23):1986 RA:2009)	1-5000 mg/L
		Total Hardness as CaCO ₃ (Carbonate Hardness / Non – Carbonate Hardness as CaCO ₃)	IS: 3025 (Part 21):2009	1 –5000 mg/L
		Zinc as Zn	IS: 3025 (Part 49):1994 RA:2009) IS: 3025 (Part 2):2004 (RA:2009)	0.05 – 10.0 mg/L 0.01 – 10.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	72 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cadmium as Cd	IS: 3025 (Part 41) :1992 RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.002 – 1.0 mg/L
		Cyanide as CN	IS: 3025 (Part 27) :1986 RA:2009)	0.01 – 2.0 mg/L
		Lead as Pb	IS: 3025 (Part 47) :1994 RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.005 – 5.0 mg/L
		Mercury as Hg	IS: 3025 (Part 48) :1994 RA:2009)	0.0008– 5.0 mg/L
		Molybdenum as Mo	IS: 3025 (Part 2) :2004 (RA:2009)	0.02 – 5.0 mg/L
		Nickel as Ni	IS: 3025 (Part 54) :1986 RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.01 – 5.0 mg/L 0.001 – 1.0 mg/L
		PCB (Poly Chlorinated Biphenyls)	APHA 22 nd Edn 2012 - 6630-B, IS: 13428:2005 (RA 2009) – Annex. M	0.0001 – 1.0 mg/L
		Poly Nuclear Aromatic Hydro Carbons as PAH	APHA 22 nd Edn 2012 - 6440	0.00005 – 1.0 mg/L
		Arsenic as As	IS: 3025 (Part 37) :1988 RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.005 - 5.0 mg/L 0.001 – 1.0 mg/L
		Total Chromium as Cr	IS: 3025 (Part 52) :2003 RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.02 – 1.0 mg/L 0.001 – 1.0 mg/L
		Trihalomethane		
		Chloroform	APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
		Bromoform	APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
		Dibromochloromethane	APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	73 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bromodichloromethane	APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
		Total solids	IS: 3025 (Part 15) :1984 RA:2009)	1 – 10,000 mg/L
		Chromium as Cr ⁶⁺	IS: 3025 (Part 52) :2003 RA:2009)	0.04 – 5.0 mg/L
		Acidity as CaCO ₃	IS: 3025 (Part 22) :1986 RA:2009)	1-5000 mg/L
		Phosphate as PO ₄	IS: 3025 (Part 31) :1986 RA:2009)	0.05 – 20 mg/L
		Oxygen absorbed in 4 hrs	IS: 3025 (Part 63) :2007	0.1 - 5.0 mg/L
		Residue & volatile solid (organic solid & Inorganic Solid)	IS: 3025 (Part 18) :1984 RA:2012)	1.0 – 10000 mg/L
		Carbon-di-oxide	IS: 3025 (Part 61) :2008	1 – 1000 mg/L
		Silica as SiO ₂	IS: 3025 (Part 35) :1988 RA:2009)	0.1 – 500 mg/L
		Antimony as Sb	IS:15303 :2003(RA 2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.002 – 5.0 mg/L
		Potassium as K	IS: 3025 (Part 45) :1993 RA:2009)	0.1 – 100 mg/L
		Sodium as Na	IS: 3025(Part 45) :1993 (RA:2009)	0.1 – 1000 mg/L
		Total Suspended Solid	IS:3025 (Part 17):1984 (RA:2012)	1 – 500 mg/L
		Color retention of KMnO ₄ at 27°C	Annex-A of IS:1070:1992 (RA:2013)	Qualitative

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	74 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<u>Water Neutralization:</u> a) To neutralize 100ml of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS:3025 (Part 22):1986 (RA:2009)	0.1 – 50 mL
		b) To neutralize 100ml of sample water using Mixed indicator using 0.02 N H ₂ SO ₄	IS:3025 (Part 23) :1986 (RA:2009)	0.1 – 100 mL
2	Water (Water Intended for Human Consumption)	Acrylamide	USEPA 8032A-Dec 1996 (Rev1)	0.00005 – 1.0 mg/L
		Antimony as Sb	APHA 22 nd Edn.2012 - 3111B, 3120 B, 3125 B	0.004 – 5.0 mg/L 0.001 – 1.0 mg/L
		Arsenic as As	APHA 22 nd Edn.2012 - 3114C, 3120 B, 3125 B	0.005 - 1.0 mg/L 0.001 – 1.0 mg/L
		Benzene	APHA 22 nd Edn 2012 - 6200 B	0.0002 – 5.0 mg/L
		Benzo(a)pyrene	APHA 22 nd Edn 2012 – 6440	0.0001 – 1.0 mg/L
		Boron as B	APHA 22 nd Edn.2012 - 4500 B,B, 3120 B, 3125 B	0.05 – 20.0 mg/L 0.01 – 1.0 mg/L
		Bromate as BrO ₃	APHA 22 nd Edn 2012 - 4110 D	0.004 – 1.0 mg/L
		Cadmium as Cd	APHA 22 nd Edn.2012 - 3111B, 3120B, 3125 B	0.002 – 1.0 mg/L 0.001 – 1.0 mg/L
		Total Chromium as Cr	APHA 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.02 – 1.0 mg/L 0.001 – 1.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	75 of 88

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 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.03– 1.0 mg/L 0.001 – 1.0 mg/L
		Cyanide as CN	APHA 22 nd Edn.2012- 4500 CN- C,E	0.01 – 2.0 mg/L
		1,2 dichloroethane	APHA 22 nd Edn 2012- 6200 B	0.0001 – 1.0 mg/L
		Epichlorohydrine	APHA 22 nd Edn 2012 - 6200 B	0.0001 – 2.0 mg/L
		Fluoride as F	APHA 22 nd Edn.2012 - 4500 F- B, D	0.1 – 10 mg/L
		Lead as Pb	APHA 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.005 – 5.0 mg/L 0.001 – 1.0 mg/L
		Mercury as Hg	APHA 22 nd Edn.2012 -3112 B, 3120 B, 3125 B	0.0008– 1.0 mg/L 0.001 – 1.0 mg/L
		Nickel as Ni	APHA 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.01 – 5.0 mg/L 0.001 – 1.0 mg/L
		Nitrate as NO ₃	APHA 22 nd Edn.2012 - 4500 NO ₃ - B	0.5 – 400 mg/L
		Nitrite as NO ₂	APHA 22 nd Edn.2012 - 4500 NO ₂ - B	0.01 – 50.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	76 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
Polycyclic Aromatic Hydrocarbons				
	Benzo(b)fluoranthene		APHA 22 nd Edn.2012 – 6440	0.0001 – 1.0 mg/L
	Benzo(k)fluoranthene		APHA 22 nd Edn.2012 – 6440	0.0001 – 1.0 mg/L
	Benzo(ghi)perylene		APHA 22 nd Edn.2012 – 6440	0.0001 – 1.0 mg/L
	Indeno(1,2,3-cd) pyrene		APHA 22 nd Edn.2012 – 6440	0.0001 – 1.0 mg/L
	Selenium as Se		APHA 22 nd Edn.2012 - 3114 C, 3120 B, 3125 B	0.005 – 1.0 mg/L 0.001 – 1.0 mg/L
	Trichloroethene		APHA 22 nd Edn 2012 - 6200 B	0.004 – 1.0 mg/L
	Tetrachloroethene		APHA 22 nd Edn 2012 - 6200 B	0.004 – 1.0 mg/L
Trihalomethane				
	Chloroform		APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
	Bromoform		APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
	Dibromochloromethane		APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
	Bromodichloromethane		APHA 22 nd Edn 2012 – 6232	0.005 – 1.0 mg/L
	Vinyl chloride		APHA 22 nd Edn 2012 - 6200 B	0.0002 – 2.0 mg/L
	Aluminium as Al		APHA 22 nd Edn.2012 - 3111 D, 3120 B, 3125 B	0.02 – 5.0 mg/L 0.001 – 1.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	77 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Ammonia as NH ₄	IS:3025(Part.34) :1988 (RA: 2009)	0.1 –20.0 mg/L
		Chloride as Cl	APHA 22 nd Edn.2012 - 4500 Cl- B, D	1-4000 mg/L
		Colour	APHA 22 nd Edn.2012 - 2120 B, C	1- 100 Hazen Units
		Conductivity @ 20°C	APHA 22 nd Edn.2012 - 2510 B	1-50,000 µmhos/cm
		Turbidity (NTU)	APHA 22 nd Edn.2012 - 2130 B	0.5 -500 NTU
		pH Value (Hydrogen Ion Concentration)	APHA 22 nd Edn.2012 - 4500 H+ A,B	1-14 units
		Iron as Fe	APHA 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.05 –10.0 mg/L 0.001 – 1.0 mg/L
		Manganese as Mn	APHA 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.01 – 5.0 mg/L 0.001 – 1.0 mg/L
		Odour	IS: 3025 (Part 5) :1983 (RA:2012)	Agreeable/ Disagreeable
		Oxygen absorbed in 4 hours (Oxydisability)	IS: 3025 (Part 63) :2007	0.1 - 5.0 mg/L
		Total Organic carbon	In-house Validated Method STP/WTR/065 (Issue Date 17.06.2013)	1 – 100 mg/L
		Sulphate as SO ₄	APHA 22 nd Edn.2012 - 4500 SO ₄ - C,E	1.0 – 2000 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	78 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sodium as Na	APHA 22 nd Edn.2012 - 3111 B, 3120 B	0.1 – 2000 mg/L
		Taste	IS: 3025 (Part 8) :1984 (RA:2012)	Agreeable/ Disagreeable
		Total solids	APHA 22 nd Edn.2012 - 2540 B	1 – 10,000 mg/L
		Total dissolved solids	APHA 22 nd Edn.2012 - 2540 C	1.0 – 10,000 mg/L
		Total suspended solids	APHA 22 nd Edn.2012 - 2540 D	1.0 – 200 mg/L
		Total Hardness as CaCO ₃	APHA 22 nd Edn.2012 - 2340 C	1 –5000 mg/L
		Calcium as Ca	APHA 22 nd Edn.2012 - 3500 Ca B	1.0 – 2000 mg/L
		Magnesium as Mg	APHA 22 nd Edn.2012 - 2340 C	1.0 – 2000 mg/L
		Alkalinity as CaCO ₃	APHA 22 nd Edn.2012 - 2320 B	1-5000 mg/L
		Acidity as CaCO ₃	APHA 22 nd Edn.2012 - 2310 B	1-5000 mg/L
		Carbon-di-oxide	APHA 22 nd Edn.2012 - 4500 CO ₂ C	1 – 2000 mg/L
		Chlorine Residual (free)	APHA 22 nd Edn.2012 - 4500 Cl- B,	0.1 – 50 mg/L
		Phenolic Compound as C ₆ H ₅ OH	APHA 22 nd Edn.2012 - 5530 B, C, D	0 – 5.0 mg/L
		Anionic Surfactants	APHA 22 nd Edn.2012 - 5540 C	0.1 – 5.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	79 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphide as S	APHA 22 nd Edn.2012 - 4500 S ₂ - F	0.04 – 10.0 mg/L
		Phosphates as PO ₄	APHA 22 nd Edn.2012 - 4500 P B,D	0.05 – 20.0 mg/L
		Residue, volatile solid	APHA 22 nd Edn.2012 - 2540 E	1.0 – 1000 mg/L
		Silica as SiO ₂	APHA 22 nd Edn.2012 - 4500 SiO ₂ C	0.1 – 200 mg/L
		Oil & Grease	APHA 22 nd Edn.2012 - 5520 O &G B, C,	2 – 100 mg/L
		COD	APHA 22 nd Edn.2012 - 5220 B, C, D	5 – 5000 mg/L
		BOD @ 27°C for 3 days	IS:3025(Part 44):1993 (RA:2009)	5 –500 mg/L
		Dissolved Oxygen	APHA 22 nd Edn.2012 - 4500 O B,C	0.2 – 10.0 mg/L
		Barium as Ba	APHA 22 nd Edn.2012 - 3111D, 3120B, 3125 B	0.1 – 5.0 mg/L 0.001 – 1.0 mg/L
		Chromium as Cr ⁶⁺	APHA 22 nd Edn.2012 - 3500 Cr.B	0.04 – 1.0 mg/L
		Molybdenum as Mo	APHA 22 nd Edn.2012 - 3112 B, 3120 B, 3125 B	0.02 – 1.0 mg/L 0.001 – 1.0 mg/L
		Potassium as K	APHA 22 nd Edn.2012 - 3111B, 3120 B	0.1 – 100 mg/L

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 80 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silver as Ag	APHA 22 nd Edn.2012 - 3111 B, 3120 B, 3125 B	0.005 – 5.0 mg/L 0.001 – 1.0 mg/L
		Uranium as U	APHA 22 nd Edn.2012- 3120 B, 3125 B,	0.01 – 1.0 mg/L
		Zinc as Zn	APHA 22 nd Edn.2012 - 3111 B, 3120B, 3125 B	0.05 – 50.0 mg/L 0.001 – 1.0 mg/L
		Residual Sodium Carbonate	IS:11624:1986 (RA: 2009)	0 -20 m.eq/L
		Sodium Absorption Ratio (SAR)	IS:11624:1986 (RA: 2009)	1 -500 m.eq/ L
		Percent Sodium	In house validated Method STP/WTR/066 (Issue Date 17.06.2013)	1 -100%
		Carbon tetra chloride	APHA 22 nd Edn 2012 - 6200 B	0.002 – 10.0 mg/L
		Dichloromethane	APHA 22 nd Edn 2012 - 6200 B	0.005 – 10.0 mg/L
		1,1 Dichloroethene	APHA 22 nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		1,2 Dichloroethene	APHA 22 nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		Toluene	APHA 22 nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		Xylene –total	APHA 22 nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		Ethyl benzene	APHA 22 nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 81 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Styrene	APHA 22nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		1,2 Dichlorobenzene	APHA 22nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		1,4 Dichlorobenzene	APHA 22nd Edn 2012 - 6200 B	0.005 – 5.0 mg/L
		Hexachloro butadiene	APHA 22nd Edn 2012 - 6200 B	0.0005 – 5.0 mg/L
		1,2-dibromoethane	APHA 22nd Edn 2012 - 6200 B	0.0002 – 1.0 mg/L
		1,2-dibromo 3 chloropropane	APHA 22nd Edn 2012 - 6200 B	0.0001 – 1.0 mg/L
		1,2 dichloropropane	APHA 22nd Edn 2012 - 6200 B	0.01 – 1.0 mg/L
		1,3 dichloropropene	APHA 22nd Edn 2012 - 6200 B	0.01 – 1.0 mg/L
		Tetrachloroethane	APHA 22nd Edn 2012 - 6200 B	0.002 – 1.0 mg/L
		Trichloroethane	APHA 22nd Edn 2012 - 6200 B	0.002 – 1.0 mg/L
		Chlorite	APHA 22nd Edn 2012 - 4110 D	0.004 – 5.0 mg/L
		Formaldehyde	USEPA 8315A-Dec 1996 (Rev1)	0.50 – 5.0 mg/L
3	Packaged Drinking water	Colour (True)	IS: 3025 (Part 4) :1983 (RA:2012)	1 – 10 Color Unit
	Natural Mineral Water	Odour	IS: 3025 (Part 5) :1983 (RA:2012)	Agreeable / disagreeable
		Taste	IS: 3025 (Part 7& 8) :1984 (RA:2012)	Agreeable/ Disagreeable

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 82 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Turbidity	IS: 3025 (Part 10) :1984 (RA:2012)	1.0 – 10 NTU
		Total dissolved solids	IS: 3025 (Part 16) :1984 (RA:2012)	1.0 – 1000 mg/L
		pH at 25°C	IS: 3025 (Part 11) :1983 (RA:2012)	1 - 14 units
		Barium as Ba	IS:13428: 2005(RA:2009) – Annex. F IS:15302: 2003(RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.1 – 2.0 mg/L 0.01 – 2.0 mg/L
		Copper as Cu	IS: 3025 (Part 42) :1992 (RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.03– 1.0 mg/L 0.01 – 1.0 mg/L
		Iron as Fe	IS: 3025 (Part 53) :2003 (RA:2009) IS:15303: 2003(RA 2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.05 – 1.0 mg/L 0.01 – 1.0 mg/L
		Manganese as Mn	IS: 3025 (Part 59) :2006 (RA:2012) IS: 3025 (Part 2) :2004 (RA:2009)	0.05 – 1.0 mg/L 0.01 – 1.0 mg/L
		Nitrate as NO ₃	IS: 3025 (Part 34) :1988 (RA:2009)	0.5 – 100 mg/L
		Nitrite as NO ₂	IS: 3025 (Part 34) :1988 (RA:2009)	0.01 – 1.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	83 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fluoride as F	IS: 3025 (Part 60): 2008	0.1 – 2.0 mg/L
		Zinc as Zn	IS: 3025 (Part 49) :1994 (RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.005 – 10.0 mg/L 0.01 – 10.0 mg/L
		Silver as Ag	IS:13428:2005(RA 2009) - Annex-J	0.005 – 1.0 mg/L
		Aluminium as Al	IS: 3025 (Part 55) :2003 (RA:2009) IS:15302: 2003(RA 2009)	0.02 –1.0 mg/L 0.005 – 1.0 mg/L
		Chloride as Cl	IS: 3025 (Part 32) :1988 (RA:2009)	1 - 500 mg/L
		Selenium as Se	IS: 3025 (Part 56) :2003 (RA:2009) IS:15303: 2003(RA:2009)	0.005 – 1.0 mg/L
		Sulphate as SO ₄	IS: 3025 (Part 24):1986 (RA:2009)	1.0 – 500 mg/L
		Alkalinity as HCO ₃	IS: 3025 (Part 23) :1986 (RA:2009)	1 – 500 mg/L
		Calcium as Ca	IS: 3025 (Part 40) :1991 (RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	1.0 – 200 mg/L
		Magnesium as Mg	IS: 3025 (Part 46) :1994 (RA:2009) IS: 3025 (Part 2) :2004 (RA:2009)	1.0 – 100 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	84 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sodium as Na	IS: 3025 (Part 45):1993 (RA: 2009) IS: 3025 (Part 2) :2004 (RA:2009)	0.1 – 500 mg/L
		Residual free chlorine	IS: 3025 (Part 26) :1986 (RA: 2009)	0.02 – 1.0 mg/L
		Phenolic compounds as C ₆ H ₅ OH	Clause 6 of IS: 3025 (Part 43): 1992 (RA: 2009)	0.001 – 2.0 mg/L /Absent
		Mineral Oil	Clause 6 of IS: 3025 (Part 39):1991 (RA 2009) Amd 2	0.01 – 2.0 mg/L / Absent
		Anionic surface active agents(as MBAS)	IS: 13428:2005 (RA: 2009) - Annex-K	0.1 - 1.0 mg/L
		Sulphide as H ₂ S	IS: 3025 (Part 29):1986 (RA: 2009)	0.04 - 1.0 mg/L
		Antimony as Sb	IS:13428:2005(RA: 2009) – Annex G. IS:15303: 2003(RA:2009)	0.004 – 1.0 mg/L 0.002 – 1.0 mg/L
		Borates as B	IS:13428:2005(RA: 2009) – Annex. H IS: 3025 (Part 2) :2004 (RA:2009)	0.05 – 10.0 mg/L 0.01 – 10.0 mg/L

Laboratory	Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
Certificate Number	T-0025	Valid Until	10.01.2016
Last Amended on	-	Page	85 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Mercury as Hg	IS: 3025 (Part 48):1994 (RA: 2009)	0.0008 - 1.0 mg/L
		Cadmium as Cd	IS: 3025 (Part 41):1992 (RA: 2009)	0.002 – 1.0 mg/L
		Arsenic as As	IS: 3025 (Part 37):1988 (RA:2009)	0.005 – 1.0 mg/L
		Cyanide as CN	Clause 2 of IS: 3025 (Part 27):1986 (RA: 2009)	0.01 – 1.0 mg/L /Absent
		Lead as Pb	IS: 3025 (Part 47):1994 (RA: 2009)	0.005 – 1.0 mg/L
		Chromium as Cr	IS:13428: 2005(RA.2009) - Annex-J IS: 3025 (Part 2) :2004 (RA:2009)	0.02 - 1.0 mg/L 0.01 – 1.0 mg/L
		Nickel as Ni	IS:13428:2005(RA: 2009) – Annex. L	0.01 – 1.0 mg/L
		Polychlorinated biphenyl(PCB)	IS:13428:2005(RA:2009) – Annex-M	0.0001 – 1.0 mg/L
		Poly Aromatic Hydrocarbons (PAH)	APHA 22 nd Edn 2012 – 6440	0.00005 – 1.0 mg/L
4	Packaged Drinking water Natural Mineral Water Drinking Water Water for Processed Food Industry Water Intended for Human Consumption EU 98/83	Pesticide Residues: 2, 4 DDT 4, 4 DDT 2, 4 DDE	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3) USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3) USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L 0.00001 - 1.0 mg/L 0.00001 - 1.0 mg/L

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 86 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		4, 4 DDE	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		2, 4 DDD	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		4,4 DDD	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		γ - HCH (Lindane)	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		α - HCH	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		β - HCH	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		δ - HCH	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		Endosulfanα	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		Endosulfanβ	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L
		Endosulfan sulphate	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00001 - 1.0 mg/L

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 11.01.2014

Certificate Number T-0025 **Valid Until** 10.01.2016

Last Amended on - **Page** 87 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Monocrotophos	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00002 - 1.0 mg/L
		Ethion	USEPA525.2-1995(Rev2) USEPA 508 -1989(Rev3)	0.00002 - 1.0 mg/L
		Chlorpyriphos	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00001 - 1.0 mg/L
		Phorate	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00002 - 1.0 mg/L
		Phoratesulphoxide	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00002 - 1.0 mg/L
		Phoratesulphone	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00002 - 1.0 mg/L
		2, 4-D	USEPA515.1-1995(Rev4)	0.00005 - 1.0 mg/L
		Butachlor	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00001 - 1.0 mg/L
		Isoproturon	USEPA 532 -2000(Rev1)	0.00002 - 1.0 mg/L
		Alachlor	USEPA525.2-1995(Rev2) USEPA 507 -1989(Rev2)	0.00002 - 1.0 mg/L
		Atrazine	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00002 - 1.0 mg/L
		Methyl parathion	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00002 - 1.0 mg/L

Laboratory Bureau Veritas Consumer Products Services (India) Private Limited,
 F2, Thiru-Vi-Ka Industrial Estate, Ekkattuthangal, Guindy, Chennai,
 Tamil Nadu
Accreditation Standard ISO/IEC 17025: 2005
Discipline Chemical Testing **Issue Date** 11.01.2014
Certificate Number T-0025 **Valid Until** 10.01.2016
Last Amended on - **Page** 88 of 88

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Methyl paraoxon	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00004 - 1.0 mg/L
		Malathion	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00001 - 1.0 mg/L
		Malaoxon	USEPA525.2-1995(Rev2) USEPA8141A-1994(Rev1)	0.00005 - 1.0 mg/L
		Aldrin	USEPA525.2-1995(Rev2)	0.00001 - 1.0 mg/L
		Dieldrin	USEPA525.2-1995(Rev2)	0.00001 - 1.0 mg/L
VII.	PVC RAW MATERIAL AND FINISHED PRODUCTS	Cadmium	IEC 62321 : 2008	5.0 - 100 ppm
		Lead	IEC 62321 : 2008	5.0 - 1000 ppm
		Mercury	IEC 62321 : 2008	5.0 - 100 ppm

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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**.