

Valid from 10 April 2019 to 10 July 2019 Issued on 10 May 2019



Schedule of Accreditation

Accreditation Scheme for Testing Laboratories Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: TL 003-01

Chemical Laboratory SGS Lanka (Pvt) Limited No 141/7, Vauxhall Street Colombo 02

Scope of Accreditation: Performing Chemical Testing of Food and Agricultural

Products, Fertilizer, Water, Pesticide Residues, Cosmetics and Soil as per the Test Methods appearing

in this schedule.

The laboratory is accredited for the tests appear from page 02 to 21;

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1 F	Food and Agricultura	ai Products		
1.1	Fish & Fishery Products	Sodium metabisulphite, as SO ₂	AOAC 990.28: 2012	10 - 2000 mg/kg
	(Fish, Prawns, Chicken, Sausages, meat	Mercury	LCHE/TM/SOP/007 AOAC 977.15: 2012 AOAC 974.14: 2012	LOQ = 0.1 mg/L
	balls, fish balls, canned fish,	Cadmium	LCHE/TM/SOP/011	LOQ = 1.0 mg/L
	Dry fish, crabs, cuttlefish)	Lead	AOAC 999.10: 2012	LOQ = 4.0 mg/L
1.2	Fish & Fishery Products (Maldive fish, Dry fish)	Histamine Content	AOAC 977.13:2012	0.1-100 mg/kg
	Tea (Black tea, Green	Moisture	ISO 1573:1980	4 – 10 %
1.3	tea, Flavored tea,	Water Extract (On dry basis)	ISO 9768:1994	32 – 45 %
	Herbal tea)	Total Ash (On dry basis)	ISO 1575:1987	4 – 8 %
		Water soluble ash percentage of total ash (On dry basis)	ISO 1576:1988	55 – 65 %
		Water soluble Ash (On dry basis)	ISO 1576:1988	2 – 4 %
		Alkalinity of water soluble ash as KOH or as K ₂ O (On dry basis)	ISO 1578:1975	1 – 3 %
		Water insoluble ash (On dry basis)	ISO 1576: 1988	2 – 4 %
		Acid insoluble Ash (On dry basis)	ISO 1577:1987	0.1 – 1 %
		Crude Fiber (On dry basis)	ISO 15598:1999	8 – 16 %
		Caffeine	ISO 10727:2002	2 – 4 %
		Total Polyphenol	ISO 14502-1:2005	11 – 30 %
		Copper		LOQ=1.0 mg/kg
		Lead		LOQ=4.0 mg/kg
		Cadmium	LCHE/TM/SOP/009	LOQ=1.0 mg/kg
		Iron	(Based on AOAC 999.10:2012)	LOQ=2.0 mg/kg
		Zinc		
		Nickel		LOQ=1.0 mg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.4	Tea (Rare earth elements)	Scandium Yttrium		
		Lanthanum		
		Cerium		
		Praseodymium		
		Neodymium	_	
		Samarium	_	
		Europium	GB 5009.94-2012	MQL = 0.2µg/L
		Gadolinium		
		Terbium	_	
		Dysprosium		
		Holmium		
	Erbium Thulium Ytterbium Lutetium	Erbium		
		Thulium		
		Lutetium		
1.5	Spices	Moisture content	ASTA Method 2.0: 2011	5 – 18 %
	Black & White Pepper, Cloves,	Volatile oil content (On dry basis)	ASTA Method 5.0: 2010	1 - 20 ml/100g
	Nutmeg, Mace Cardamom.	Total Ash (On dry basis)	ISO 928:1997 (SLS 186-3:2008)	1 – 9 %
	Turmeric powder	Acid Insoluble Ash	ISO 930:1997 (SLS 186-4:2008)	0.1 - 1%
		Crude fiber (On dry basis)	ASTA Method 7.0: 1997	1 – 40 %
1.6	Cinnamon	Moisture content	ASTA Method 2.0: 2011	5 – 18 %
		Volatile oil content (On dry basis)	ASTA Method 16.0: 2010	0 – 5 ml/100g
		Total Ash (On dry basis)	ISO 928:1997 (SLS 186-3: 2008)	1 - 9 %
		Acid Insoluble Ash (On dry basis)	ISO 930:1997 (SLS 186-4:2008)	0.1 – 1 %
		Crude fiber (On dry basis)	ASTA Method 7.0: 1997	1 – 50 %
		Sulphur dioxide	AOAC 990:28: 2012	10 - 500 mg/kg
		Coumarin Content	LCHE/SOP/072	1 - 30,000 ppm

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1.7	Black & white Pepper	Piperine content	ASTA Method 12.1: 1997	5 – 12 %
1.8	Desiccated coconut	Moisture content	SLS 98:Appendix C: 1988	1 – 3.5 %
		Oil content	SLS 98: Appendix D: 1988	30 – 70 %
		Acidity, as lauric acid	SLS 98: Appendix E: 1988	0.05 – 1 %
1.9	Fruit juice & concentrates	Sulphur dioxide	AOAC 990.2.8 Monier Williams method	
		Titratable acidity	SLS 214: 2010, Appendix C	10 mg/kg
		Benzoic acid content	SI S 214:2010 Appendix E	
		Sorbic acid content	SLS 214:2010 Appendix-E	
1.10	Cereals, Corn Flakes, Full Cream	Lead		LOQ = 4.0 mg/L
	Milk Powder, Skimmed Milk	Cadmium	LCHE/TM/SOP/012, Rev 00:2012	LOQ = 1.0 mg/L
	Powder	Mercury		
		Aluminum		
	Arsenic			
		Copper		
		Manganese		LOQ=3.0 mg/L
		Magnesium	LCHE/TM/SOP/008, Rev 00:2011	LOQ=5.0 mg/L
		Zinc		LOQ=1.0 mg/L
		Calcium		LOQ=5.0 mg/L
		Moisture content	SLS 735-3:1987	0.01 – 5.0 %
		Milk fat content	SLS 735-1:Section 2: Annex B: 2009	0.01 –5.00 %
		Milk protein in milk solids non-fat	SLS 731:Appendix E: 2008	30 – 50 %
		Titratable acidity, as lactic acid	SLS 735-2:1987	0.01 - 2.0 %

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1.11	Edible fats & Oils	Butyric acid			
	(Coconut Oil, Palm Oil, Palm Olein, Palm Sterain, Palm	`	Caproic acid		
		Caprylic acid			
	Kernal Oil,	Capric acid			
	Sunflower Seed Oil, Fatty Acid	Undecanooic acid			
	Methyl Ester)	Lauric acid			
		Tridecanoic acid			
		Myristic acid			
		Myristoleic acid			
		Pentadacanoic acid			
		cis-10-pentadecanoic acid			
		Palmatic acid			
		Palmitoleic acid			
		Heptadecanoic acid	100 40000 4 0044 (5)		
		cie 10 hontadocanoio acid	ISO 12966-1:2014 (E) ISO 12966-2:2011 (E)	LOD 0.01 g/100g	
		Stearic acid		,	
		Elaidic acid			
		Oleic acid			
		Linolelaidic acid			
		Linoleic acid			
		Arachidic acid			
		g-Linolenic acid			
		cis-11-eicosenoic acid			
		Linolenic acid			
		Heneicosanoic acid			
		cis-11-14-eicosatrienoic acid			
		Behenic acid			

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
1.11	Edible fats & Oils (Coconut Oil, Palm	Methyl <i>cis</i> -8,11,14- eicosatrienoate		
	Oil, Palm Olein,	Erucic acid		
	Palm Sterain, Palm Kernal Oil, Sunflower Seed	cis-11-14-17-eicosatrienoic acid		
	Oil, Fatty Acid Methyl Ester)	Arachidonic acid		
	Wetry Ester)	Tricosanoic acid		
		cis-13,16-docosadienoic acid		
		cis-5,8,11,17- eicosapetaenoic acid	ISO 12966-1:2014 (E)	
		Nervonic acid	ISO 12966-2:2011 (E)	LOD 0.01 g/100g
		<i>cis</i> -4,7,10,13,16,19-docosahexaenoic acid		
		Lignoceric acid		
		Saturated fatty acids		
		Mono unsaturated fatty acids		
		Poly unsaturated fatty acids		
		Trans fatty acids		
1.12	Edible fats & oils (Coconut oil, Palm oil,Palm olein, Palm sterain,	Lovibond colour: 133.4 mm (5 ¼ inch)	SLS 313-1:Section 4: 2009 (ISO 15305: 1998)	0.1 - 70 R, 0.1 - 70 Y, 0.1 - 40 B, 0.1 - 3.0 neutral (Lovibond units)
	Palm kernel oil, Sunflower seed oil)	Relative Density	SLS 313-1:Section 2: 2009	0.800 – 0.950 (<i>t</i> °C/t0°C in air)
		Insoluble impurities content	SLS 313-3:Section 4: 2009 (ISO 663: 2017)	0.01 – 1.00 %
		Moisture and volatile matter content	SLS 313-3:Section 5: 2009 (ISO 662:2016)	0.01 – 1.00 %
		Free fatty acids / Acidity / Acid value	SLS 313-2:Section 6:2009 (ISO 660: 2009)	0.01 – 6.00 %
		lodine Value	SLS 313-2:Section 2: 2014 (ISO 3961: 2018)	5 – 160

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1.12	1.12 Edible fats & oils (Coconut oil, Palm oil,Palm olein, Palm sterain, Palm kernel oil, Sunflower seed oil)	Saponification value	SLS 313-2:Section 1: 2014 (ISO 3657:2013)	160 - 270
		Unsaponifiable matter content	SLS 313-4:Section 3: 2010(ISO 3596: 2000)	0.50 – 3 %
		Peroxide value	SLS 313-3:Section 7: 2009 ISO 3960: 2017	0 – 10 meq/kg
		Slip melting point	SLS 313-1:Section 7: Annex A: 2009 (ISO 6321:2002)	10 – 100.0 °C
1.13	Dairy fat spread	Fat content	SLS 735-1: Section 8: 2011	10 - 80 %
		Salt content	SLS 735-11: 2011	0.5 – 3%
		Free Fatty acid as oleic acid	SLS 313-2: Section 6: 2009	0.05 - 1.0 %
1.14	Sugar confectionary	Moisture	SLS 586: Clause 3:1982 SLS 586: 1982	0.1 - 25%
	(Chewing gum,	Sulphated Ash	SLS 586: Clause 4:1982	0.01 - 11.5%
	Bubble gum, Toffee, Lozenges,	Acid Insoluble Ash	SLS 586: Clause 5:1982	0.01 - 2.0%
	Hard boiled sugar, Gelatin	Reducing Sugar	SLS 586: Clause 6:1982	1 - 50%
	based products,	Sucrose	SLS 586: Clause 7:1982	1 - 100%
	Pectin based Products)	Fat	SLS 586: Clause 8:1982	0.1 - 10.0%
1.15	Edible salt	Moisture		0.1-12.0%
	(Granular form)	Sodium chloride as Nacl		90-100%
		lodine content	01.0.70, 004.4	10-50 mg/kg
		Matter insoluble in water on dry basis % by mass	SLS 79: 2014	0.01 - 2.0%
1.16	Food grade salt	Moisture		0.1 - 10.0%
	(Powdered form)	Matter insoluble in water	1	0.01 – 2.0%
		Sodium Chloride as NaCl	SLS 80: 2014	90-100%
		lodine content		10-50 mg/kg

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1.17	White sugar	Polarization	SLS 191:Appendix B:2017	0-100%
		Loss on drying	SLS 191:Appendix D:2017	0.01 – 5.0 %
		Colour	SLS 191:Appendix F:2017	10 – 500 ICUMSA units
1.18	Soya Sauce	рН	SLS 1035: Appendix D: 1995	2 - 8
		Salt as Sodium chloride	SLS 1035: Appendix E: 1995	1 – 20 %
1.19	Biscuit	Moisture	SLS 1313:2007 & SLS 251: Appendix B: 2010	0.5 – 10 %
		Acid insoluble ash	SLS 251: 2010, Appendix C	0.05 – 0.5 %
		Acidity	SLS 251: 2010, Appendix D	0.05 – 2.0 %
2	Fertilizer			
2.1	Sulphate of Ammonia	Moisture	SLS 645: Part 2: Method 2: 1984 SLS 620:2014	0.5 - 1%
		Ammoniacal Nitrogen, as N	SLS 645: Part 1: Section B: 2009	20.3 – 20.8%
			SLS 620:2014	
		Free Acidity, as H ₂ SO ₄	SLS 620: 2014, Appendix C	0.01 – 0.03%
			SLS 620:2014	
		Sulphur	AOAC 980.02 SLS 620:2014	22.7 - 24.5 %
		Arsenic as As		0.04 – 100 mg/kg
		Chromium as Cr	1010 0000 00 0010	1 – 100 mg/kg
		Lead as Pb	AOAC 2006.03:2012 SLS 620:2014	0.06 – 100 mg/kg
		Mercury as Hg		0.1 – 10 mg/kg
		Cadmium as Cd		0.03 – 100 mg/kg
2.2	Di-ammonium Phosphate	Moisture	SLS 645: Part 2: Method 2: 1984	0.01 - 1.6%
		Ammonical Nitrogen, as N	SLS 645: Part 1: Section B: 2009	10 - 20%
		Total phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985	45 - 48%
		Water soluble phosphate, as P ₂ O ₅	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35.0 - 45.0%

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests	Range of testing/ Limits of
		-	are performed	detection
2.3	Single Super Phosphate (Granular and Powder form)	Moisture	SLS 645: Part 2: Method 1: 1984	0.5 - 5.0%
	·	Total phosphate as P ₂ O ₅	SLS 645: Part 5: 1985	16 - 18%
		Water soluble phosphate, as P_2O_5	SLS 645: Part 5: 1985	12.0 – 16.0%
		Free phosphoric acid, as P ₂ O ₅	SLS 1318: Appendix B:2007	1.0 – 5.0%
		Cadmium (mg/kg)	AOAC 2006.03: 2012	0.1 - 1 %
2.4	Urea (Prilled and Granular) SLS 618:2014	Moisture	SLS 645: Part 2: Method 2: 1984	0.2 - 1.5%
	3L3 010.2014	Total Nitrogen, as N (on drybasis)	SLS 645: Part 1 :Section C:2009	45.0 – 46.6%
		Biuret	SLS 645: Part 3: Method 2: 2009	0.7 - 1%
		Arsenic as As	AOAC 2006.03:2012 SLS 618:2014	0.04 – 100 mg/kg
		Chromium as Cr		1 – 100 mg/kg
		Lead as Pb		0.06 – 100 mg/kg
		Mercury as Hg		0.1 – 10 mg/kg
		Cadmium as Cd		0.03 – 100 mg/kg
2.5	Potassium chloride MOP	Moisture	SLS 645: Part 2: Method 1: 1984 SLS 644:2014	0.5 - 5.0%
		Sodium, as NaCl (on dry basis)	SLS 645: Part 7: Section 1: 1994 SLS 644:2014	1 – 3.5%
		Water soluble potassium content as K ₂ O	AOAC 983.02 SLS 644:2014	59.5 - 63.5%
			SLS 644:2014	
		Magnesium as MgCl ₂	AOAC 965.09	0.1 - 1 %
		Arsenic as As	-	0.04 – 100 mg/kg
		Chromium as Cr		1 – 100 mg/kg
		Lead as Pb	AOAC 2006.03:2012 SLS 644:2014	0.06 – 100 mg/kg
		Mercury as Hg		0.1 – 10 mg/kg
		Cadmium as Cd		0.03 – 100 mg/kg

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
2.6	TSP	Moisture	SLS 645: Part 2: Method 1: 1984 SLS 812:2014	0.5 - 5.0%
		Total Phosphate, as P ₂ O ₅	SLS 645: Part 5: 1985 SLS 644:2014	45.5 – 47.5%
		Water soluble phosphate, as P_2O_5	SLS 645: Part 5: 1985 SLS 644:2014	35.0 - 40.0%
		Free phosphoric acid, as P_2O_5	SLS 644:2014 Appendix C	1.0 – 5.0 %
		Arsenic as As		0.04 – 100 mg/kg
		Chromium as Cr	AOAC 2006.03:2012	1 – 100 mg/kg
		Lead as Pb	SLS 644:2014	0.06 – 100 mg/kg
		Mercury as Hg Cadmium		0.1 – 10 mg/kg
2.7	Mixed Fertilizer	Moisture	SLS 645: Part 2: Method 2: 1984	0.03 – 100 mg/kg 0.5 - 5.0 %
		Total nitrogen, as N	SLS 645: Part 1: Section C: 2009	5.0 – 40 %
		Total Phosphorous, as P ₂ O ₅	SLS 645: Part 5: 1985	5.0 - 50.0 %
		Magnesium content as MgO	SLS 645:PART 6 1990	23.2-29 %
		Water solubility	SLS 1104:2014 appendix D	19.5-40 %
		Arsenic as As		0.04 – 100 mg/kg
		Chromium as Cr	AOAC 2006.03:2012	1 – 100 mg/kg
		Lead as Pb	1	0.06 – 100 mg/kg
		Mercury as Hg Cadmium as Cd		0.1 – 10 mg/kg 0.03 – 100 mg/kg
3	Water			0.00 roomg/kg
3.1	Drinking Water, Processing Water,	рН	APHA 4500-H ⁺ B: 2017 (23 rd Edition)	1.0 – 14.0
	Potable Water, Raw Water.	Chloride, as Cl	APHA 4500-Cl ⁻ B: 2017 (23 rd Edition)	1- 500 mg/L
		Hardness, as CaCO₃	APHA 2340 C: 2017(23 rd Edition)	2 - 1000 mg/L
		Nitrate, as N	APHA 4500-NO ₃ - B: 2017(23 rd Edition)	0.1- 50 mg/L
		Free Ammonia, as N	APHA 4500-NH ₃ D: 2017(23 rd Edition)	0.04 - 0.65 mg/L

01.110	Product(s) /	Specific tests	Test Method/ Standard	Range of
SI NO	Material of test	performed	against which tests	testing/ Limits
		μοο	are performed	of detection
3.1	Drinking Water, Processing Water,	Fluoride, as F	APHA 4500-F ⁻ C: 2017(23 rd Edition)	0.1 – 5.0 mg/L
	Potable Water,	Alkalinity, as CaCO₃	APHA 2320 B: 2017(23 rd Edition)	2 1000 mg/l
	Raw Water.	-	·	2–1000 mg/L
		Nitrite, as N	APHA 4500-NO ₂ - B: 2017	0.01 – 10.0
			(23 rd Edition) APHA 4500-O-H 2017	mg/L
		Dissolve Oxygen	(23rd Edition)	0.1 – 20.0 mg/L
		Residual chlorine, as Cl ₂	APHA 4500-Cl G: 2017(23 rd Edition)	0.07 – 4.0 mg/L
		Free CO ₂	APHA 4500-CO ₂ B: 2017(23 rd Edition)	0.1 – 2000 mg/L
		Oil & Grease	APHA 5520 B: 2017 (23 rd Edition)	1 – 100 mg/L
		Total solids/ Dry Residues	APHA 2540 B: 2017(23 rd Edition)	3 – 2000 mg/L
		Total Suspended Solids	APHA 2540 D: 2017(23 rd Edition)	2 – 500 mg/L
		Total Dissolved Solids	APHA 2540 C: 2017(23 rd Edition)	3 – 2000 mg/L
		Iron, as Fe	APHA 3500-Fe B: 2017(23 rd Edition)	0.1 – 50.0 mg/L
		Sodium, as Na	APHA 3120 B: 2017(23 rd Edition)	0.05 – 200 mg/L
		Potassium, as K	Luttoriy	0.05 - 100 mg/L
3.2	Drinking Water, Processing Water, Potable Water, RO Water,	рН	APHA 4500-H ⁺ B: 2017 (23 rd Edition)	1.0 – 14.0
	Desalinated Water	Total Phosphorous, as P ₂ O ₅	APHA 4500-P D: 2017 (23 rd Edition)	0.16 – 229.14 mg/L
		Total Phosphorous, as PO ₄ 3-	APHA 4500-P D: 2017 (23 rd Edition)	0.21 – 306.62 mg/L
		Alkalinity, as CaCO₃	APHA 2320 B: 2017 (23 rd Edition)	2–1000 mg/L
		Nitrite, as N	APHA 4500-NO ₂ - B: 2017(23 rd Edition)	0.01 – 10.0 mg/L
		Hardness, as CaCO₃	APHA 2340 C: 2017 (23 rd Edition)	2 - 1000 mg/L
SI NO	Product(s) /	Specific tests	Test Method/ Standard	Range of
	Material of test			testing/ Limits

		performed	against which tests are performed	of detection
3.2	Drinking Water, Processing Water,	Nitrate, as N	APHA 4500-NO ₃ - B: 2017(23 rd Edition)	0.4 50.0
	Potable Water, RO Water, Desalinated Water	Nitrate, as NO ₃ -	APHA 4500-NO ₃ - B: 2017 (23 rd Edition)	0.1 – 50.0 mg/L 0.44 – 221.34 mg/L
	Desamated Water	Free Ammonia, as N	APHA 4500-NH ₃ D: 2017 (23rd Edition)	0.04 – 0.65 mg/L
		Free Ammonia, as NH₃	APHA 4500-NH ₃ D: 2017(23rd Edition)	0.049 - 0.79 mg/L
		Free Ammonia, as NH ₄ +	APHA 4500-NH ₃ D: 2017(23 rd Edition)	0.052 -0.837 mg/L
		Fluoride, as F	APHA 4500-F ⁻ C: 2017 (23 rd Edition)	0.10-5.00 mg/L
		Nitrite as NO ₂ -	APHA 4500-NO ₂ -B:2017 (23 rd Edition)	0.03 – 32.85 mg/L
		Dissolved Oxygen	APHA 4500-O-H 2017 (23rd Edition)	0.10 – 20.0 mg/L
3.3	RO Water, Desalinated Water	Ammonical Nitrogen as N	APHA 4500- NH ₃ C & D: 2017 (23 rd Edition) APHA 4500-CI G: 2017	5 - 200 mg/L
		Residual Chlorine as Cl ₂	(23 rd Edition)	0.07 – 4.0 mg/L
		Free CO ₂	APHA 4500-CO ₂ B: 2017 (23 rd Edition)	0.05 – 2000 mg/L
		Oil & Grease	APHA 5520 B: 2017 (23 rd Edition)	1 – 100 mg/L
		Total solids/Dry residues	APHA 2540 B: 2017 (23 rd Edition)	2 – 2000 mg/L
		Total suspended solids	APHA 2540 D: 2017 (23 rd Edition)	2 – 500 mg/L
		Total dissolved solids	APHA 2540 C: 2017 (23 rd Edition)	3 – 2000 mg/L
		Iron as Fe	APHA 3500-Fe B: 2017 (23 rd Edition)	0.1 – 50 mg/L
3.4	Drinking Water, Processing Water, Potable Water,	Chemical Oxygen Demand [COD]	APHA 5220 D: 2017 (23 rd Edition)	6 - 100 mg/L
	Raw Water. RO Water, Desalinated Water	Calcium, as Ca	APHA 3500-Ca B: 2017 (23 rd Edition)	4 - 1000 mg/L
			APHA 3120 B: 2017 (23 rd Edition)	0.05 - 200mg/L
		Magnesium, as Mg Boron as B	APHA 3120 B: 2017 (23 rd Edition)	10 – 1000 mg/L 0.05 – 200 mg/L
	Due desert M			0.01 – 50 mg/L
SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection

3.4	Drinking Water, Processing Water,	Cobalt, as Co		
	Potable Water,	Beryllium, as Be		- 0.01 – 10 mg/L
	Raw Water. RO Water, Desalinated Water	Antimony, as Sb		0.05 10 mg/L
		Manganese, as Mn		- 0.01– 10 mg/L
		Zinc, as Zn		0.01 10 mg/L
		Silver, as Ag		0.05- 10 mg/L
		Arsenic, as As		0.01- 10 mg/L
		Nickel, as Ni	APHA 3120 B: 2017 (23 rd Edition)	0.01- 10 mg/L
		Barium, as B		0.05- 10 mg/L
		Lead, as Pb		0.01- 100 mg/L
		Copper, as Cu		0.01- 10 mg/L
		Aluminium, as Al		0.01- 10 mg/L
		Vanadium, as V		0.01- 05 mg/L
		Cadmium, as Cd		0.003- 10 mg/L
		Chromium, as Cr		
		Selenium, as Se		0.01- 10 mg/L
		Iron, as Fe		
		Tin, as Sn	APHA 3113 B: 2017 (23 rd Edition)	0.05 - 5.0 mg/L
		Turbidity	APHA 2130 B: 2017 (23 rd Edition)	0.5-800 NTU
3.5	Waste Water	рН	APHA 4500-H ⁺ B: 2017 (23 rd Edition)	1-14
		Chemical Oxygen Demand [COD]	APHA 5220 D: 2017 (23 rd Edition)	6 – 2000 mg/L
		Turbidity	APHA 2130 B: 2017 (23 rd Edition)	0.5 - 800 NTU
		Conductivity	APHA 2510 B: 2017 (23 rd Edition)	0.6 – 2000 μS/cm
		Oil & Grease	APHA 5520 B: 2017 (23 rd Edition)	1 - 100 mg/L
		Colour	ISO 7887:Method B: 2011	0.1 - 99.9
		Silicate	APHA 4500-SiO ₂ C: 2012 (22 nd Edition)	0.5 - 100 mg/L
		Total Suspended Solids	APHA 2540 D: 2017 (23 rd Edition)	2 – 500 mg/L

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3.5	Waste Water	Total Dissolved Solids	APHA 2540 C: 2017 (23 rd Edition)	3 – 2000 mg/L
		Total Phosphorous, as P ₂ O ₅	APHA 4500-P D: 2017 (23 rd Edition)	0.16 – 229.14 mg/L
		Total Phosphorous, as PO ₄ ³ ·		0.21 – 306.62 mg/L
		Total Phosphorous, as P		
		Dissolved Phosphorous, as P		0.07 - 100 mg/L
		Dissolved Phosphorous, as PO ₄ ³⁻		0.21 - 306.62 mg/L
		Dissolved Phosphorous, as P ₂ O ₅		0.16 – 229.14 mg/L
		Ammonical nitrogen, as N	APHA 4500-NH3 C : 2017	5 – 200 mg/L
		Ammonical nitrogen, as NH ₃	(23 rd Edition)	6.08-243.18
		Dissolve Oxygen	APHA 4500-O-H 2017 (23 rd Edition)	0.1 – 20.0 mg/L

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/ Standard against which tests are performed	Range of testing/ Limits of detection
4 I	Pesticide Residues			
4.1	Tea	Bifenthrin		
		Chlorothalonil		
		Chlorpyrifos		
		Hexaconazole		
		Propiconazole		
		Dicofol		
		Bromopropylate		
		Chlorfluzuron		
		Cypermethrin		
		Flusilazole		LOD 0.01 mg/kg
		Ethion	LCHE/TM/SOP/001;Rev09	
		Fenpropathrin	(AOAC 2007.01 2012)	
		Fenthion		
		Malathion		
		Methidathion		
		Parathion- methyl		
		Tebuconazole		
		Tetradifon		
		Propagite		
		Permethrin		
		Endosulfan		
		Etaxazole		
		Paraquate	LCHE/TM/SOP/ /065;Rev02	
		Thiamethoxam		
		Dichlorvos		
		Diurone	LCHE/TM/SOP/064;Rev04	
		Endrin-ketone		
		alpha-HCH	LCHE/TM/SOP/001; Rev09 AOAC 2017.01.2012	
		beta-HCH		

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection
4.1	Tea	gamma-HCH		
		delta-HCH		
		Heptachlor		
		Heptachlor-epoxide		
		Methoxychlor		
		Anthraquinone		
		Diazinone		
		Oxyfluorefen		
		4,4-DDD	LCHE/TM/SOP/001; Rev09	
		4,4-DDE	AOAC 2017.01.2012	LOD 0.01 mg/kg
		4,4-DDT		
		Aldrin		
		Dieldrin		
		alpha- Endosufan		
		beta- Endosulfan		
		Endosulfan sulfate		
		Endrin		
		Endrin aldehyde		
		Acephate		
		Acetamiprid	LCHE/TM/SOP/064; Rev 04	
		Imidachlorprid		LOD 0.01 mg/kg
		MCPA	1 CHE/TM/SOD/076:	
		2, 4-D	LCHE/TM/SOP/076; Rev 00	
4.2	Fruits & Vegetables	Bifenthrin		
		Chlorothalonil	LCHE/TM/SOP/001;Rev 09 (Based on AOAC 2007.01:2012)	
		Chlorpyrifos		
		Hexaconazole		LOD 0.01 mg/kg
		Propiconazole		
		Dicofol		
		Bromopropylate		

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection
4.2	Fruits & Vegetables	Chlorfluzuron		
		Cypermethrin		
		Flusilazole		
		Etaxazole		
		Ethion		
		Fenpropathrin		
		Fenthion		
		Malathion		
		Methidathion		
		Parathion- methyl		
		Tebuconazole		
		Tetradifon	LCHE/TM/SOP/001;Rev 09 (Based on AOAC	LOD 0.01 mg/kg
		Propagite	2007.01:2012)	LOD 0.01 mg/kg
		Endrin-ketone		
		alpha-HCH		
		beta-HCH		
		gamma-HCH		
		delta-HCH		
		Heptachlor		
		Heptachlor-epoxide		
		Methoxychlor		
		Anthraquinone		
		Diazinone		
		Permethrin		

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection
4.2	Fruits & Vegetables	Dichlorvos		
		Oxyfluorefen		
		Aldrin		
		4,4-DDE		
		4,4-DDD		
		4,4-DDT	LCHE/TM/SOP/001;Rev 09 (Based on AOAC	
		Dieldrin	2007.01:2012)	
		alpha-Endosulfan		
		beta-Endosulfan		
		Endosulfan-sulfate		LOD 0.01 mg/kg
		Endrin		
		Endrin- aldehyde		
		Acephate		
		Acetamiprid	LCHE/TM/SOP/064;	
		Imidachlorprid Rev 004		
		Diuron		
		Thiamethoxam		
		Paraquate	LCHE/TM/SOP/065 Rev 002	
		MCPA	LCHE/TM/SOP/076; Rev 00	
		2,4-D	LCHE/TM/SOP/076; Rev 00	
4.3	RO Water,	Aldrin		
	Desalinated water	4,4-DDE	APHA 6630:2017: Part C	LOD 0.01 µg/L
		4,4-DDD		
		4,4-DDT		
		Dieldrin		
		alpha-Endosulfan		
		beta-Endosulfan		
		Endosulfan-sulfate		
		Endrin		

SI NO	Product(s) / Material of test	Specific tests performed		Test Method/Standard against which tests are performed		Range of testing/ Limits of detection
4.3	RO Water,	Endrin- aldehyde				
	Desalinated water	Endrin-ketone				
		alpha-HCH				
		beta-HCH				
		gamma-HCH				
		delta-HCH		APHA 6630:2017: Part	С	LOD 0.01 mg/L
		Heptachlor				
		Heptachlor-epoxide				
		Methoxychlor				
5	Cosmetics	<u>'</u>				
5.1	Laundry soap powders, flakes & chips	Total fatty matter	ISO	685:1975	10	– 90 %
		Free caustic alkali	ISO	456:1973	0.0	1 – 5 %
		Content of ethanol- insoluble matter	ISO	673:1981	0-	4.0 %
		Chloride content, as NaCl	ISO	457:1983	0.1	- 3.0 %
		Moisture & volatile matter content	ISO	672:1978	0.5	-7%
		Unsaponified and unsaponifiable matter	ISO	1067:1974	0.5	– 4 %
		pH at 27±2°C	SLS	38:Appendix B: 2009	3.0	-13,0
5.2	Baby soap	Total fatty matter	ISO	685:1975		– 90 %
		Freedom from rosin	SLS	5 547:Appendix B: 2009		t Applicable ualitative test)
		Content of ethanol- insoluble matter		673:1981	0.1	-4.0 %
		Free caustic alkali as NaOH	ISO	456:1973	0.0	2 – 2 %
		Total free alkali as NaOH	ISO	684:1974	0.0	2 – 5 %
		Chloride content, as NaCl	ISO	457:1983	0.5	-2%
5.3	Liquid Toilet Soap	Total fatty matter	ISO	685:1975	10	– 80 %
		pH at 27 ± 2°C	SLS	1142:Appendix B: 2009	3 –	13.0
		Content of ethanol- insoluble matter	ISO	673:1981	0.1	-4%
		Total free alkali as NaOH	ISO	684:1974	0.0	2 – 5 %

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection
5.4	Toilet soap	Total fatty matter	SLS34:Appendix C: 2009	10 – 90 %
		Rosin acids content	SLS34:Appendix B: Method 2: 2009	0.5 – 5 %
		Content of ethanol- insoluble matter	ISO 673:1981	0.5 – 4 %
		Free caustic alkali as NaOH	ISO 456:1973	0.02 – 5 %
		Total free alkali as NaOH	ISO 684:1974	0.02 – 5 %
		Chloride content, as NaCl	ISO 457:1983	0.5 – 3 %
		pH at 27 ± 2 °C	SLS 611:Appendix C.3: 1983	3.0-13.0
5.5	Skincream & lotions	Non-volatile matter at 105 °C	SLS 743:Appendix B: 2014	5 – 50 %
		Water Content	SLS 611:Appendix C.5: 1983	5 – 95 %
5.6	Skin creams & lotions for babies	pH at 27±2°C	SLS 611:Appendix C.3: 1983	1.0 – 14.0
	lotions for bables	Non-volatile matter at105°C	SLS 742:Appendix B: 2014	5 – 50 %
		Water content	SLS 611:Appendix C.5: 1983	5 – 95 %
5.7 5.8	After-shave Lotion Cologne	Ethanol Content	SLS 534:Appendix A: 1981	10 – 95 %
5.9	Baby Colonge		SLS 589:Appendix A: 1982	
5.10	Skin Powder for	Matter insoluble in boiling Water	SLS 187:Appendix C: 2013	10 – 99 %
	Infants	Fineness a) Residue on 75-µm sieve, percent by mass, max. b) Residue on 150-µm sieve, percent by mass, max.	SLS 187:Appendix D: 2013	0.01 – 3%
		Moisture & volatile matter	SLS 187:Appendix E: 2013	0.5 – 5 %
		pH of aqueous suspension	SLS 187:Appendix F: 2013	3.0-13.0
5.11	Skin Powder	Matter insoluble in boiling Water	SLS 389:Appendix C: 2014	10 – 99 %
		Fineness a) Residue on 75-µm sieve, percent by mass, max. b) Residue on 150-µm sieve, percent by mass, max.	SLS 389:Appendix D 2014	0.05 – 3%
		Moisture & volatile matter	SLS 389:Appendix E: 2014	0.5 – 5 %
		pH of aqueous suspension	SLS 389:Appendix F: 2014	3.0-13.0

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection	
5.12	Sanitary Towels	Absorbency	SLS 111:Appendix B: 2009	Not Applicable (Qualitative test)	
		pH value	SLS 86: 2006	1.0 – 14.0	
		Ash content	SLS 111:Appendix C: 2009	0.1 – 10 %	
		Water soluble extract	SLS 111:Appendix D: 2009	0.1 – 2 %	
		Moisture Content	SLS 111:Appendix F: 2009	1– 20 %	
5.13	Hair shampoo	Active synthetic anionic ingredient content	SLS 1342:Appendix B: 2008	1 – 20 %	
		pH at 27± 2°C	SLS 1342:Appendix C: 2008	1.0 - 14.0	
		Inorganic salts	SLS 1342:Appendix D: 2008	1 – 10 %	
		Lather volume	SLS 1342:Appendix E: 2008	10 – 200 ml	
5.14	Hair shampoo for babies	Active synthetic anionic ingredient content	SLS 1342:Appendix B: 2008	1 – 20 %	
		pH at 27± 2°C	SLS 1342:Appendix C: 2008	1.0 - 14.0	
		Inorganic salts	SLS 1342:Appendix D: 2008	1 – 10 %	
		Lather volume	SLS 1342:Appendix E: 2008	10 – 200 ml	
6	Soil				
6.1	Soil	Total Nitrogen	ISO 11261:1995	1 – 50 mg/kg	
		Extractable P	ISO 11263:1994	2 – 100 mg/kg	
		Organic C	ISO 14235:1998	0.5 – 200 mg/kg	
		K			
		Mg	ISO 13536:1995	2 – 100 mg/kg	
		Na			
		рН	ISO 10390:2005	3-13	
		Electrical conductivity	ISO 11265:1994	0.5 – 200 mg/kg	
		Cadmium		0.05 – 100 mg/kg	
		Chromium		2 – 100 mg/kg	
		Copper		1 – 100 mg/kg	
		Lead	FDA 2054 A-2007	2 – 100 mg/kg	
		Molebdenum	EPA 3051 A:2007	1 – 100 mg/kg	
		Nickel			
		Vanadium	_	2 – 100 mg/kg	
		Zinc			

Director/CEO Sri Lanka Accreditation Board for Conformity Assessment