

As an accredited laboratory ,this laboratory is  
Entitled to use the following accreditation symbol.



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ISO/ IEC 17025  
TL 003- 01

## Schedule of Accreditation

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

Accreditation Number: TL 003-01

Chemical Laboratory  
SGS Lanka Laboratory Services  
Nos.140 & 141/ 7, Vauxhall Street  
Colombo 02

**Scope of Accreditation:** Performing Chemical Testing on Product Categories of Food & Agricultural Products, Water, Pollution & Effluents, Fertilizer and Soil as per the Test Methods appearing in this schedule.

The laboratory is accredited for the following tests.  
(Please see page 02 onwards for details)

SI	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
<b>Food &amp; Agricultural Products</b>					
01	Tea Black	Moisture (%)	ISO 1573:1980	4 -8	0.00
		Water Extract (%)	CS 28:1968	33 - 40	0.38
		Total Ash (%)	ISO 1575:1987	4 – 8	0.06
		Water soluble Ash (%)	ISO 1576:1988	2 - 4	2.51
		Alkalinity of Ash (%)	ISO 1578:1975	1 - 3	0.01
		Acid insoluble Ash (%)	ISO 1577:1987	Less than 1	0.06
		Crude Fiber (%)	ISO 15598:1999	Less than 16	7.73
		Copper (ppm)	AOAC 999.11: 2005	0.03 – 10	0.03
		Lead (ppm)	AOAC 999.11: 2005	0.1 – 30	0.01
		Cadmium (ppm)	AOAC 999.11: 2005	0.02-3	0.08
		Iron (mg/kg)	AOAC 999.11: 2005	1-1000	12.8
		Zinc (mg/kg)	AOAC 999.11: 2005	1-50	15.86
02	Spices	Piperine content in black & white pepper (%)	ASTA Method 12.1:1997	1-20	6.46
03	Fat/Oil	Peroxide Value (%)	SLS 313 : part2:1993	5-115	10
04	Fish & Fishery Products	Mercury content (mg/kg)	AOAC 977.15 : 2005	1-100	4.91
		Sodium metabisulphite as SO <sub>2</sub> (mg/kg)	AOAC 990.28: 2005	2-2000	10 %
		Cd content (mg/kg)	AOAC 999.11: 2005	0-2000	10%
		Pb Content (mg/kg)	AOAC 972.23:2005	0-2000	10%

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<b>Water</b>					
01	Water	pH	APHA 4500H <sup>+</sup> B:2005	1 -14	0.11
		Chloride (mg/l)	APHA 4500 Cl B:2005	0.5 -100	5.49
		Iron (mg/l)	APHA 3500Fe B:2005	0.05 - 1	0.25
		Hardness (mg/l)	APHA 2340 C:2005	1 - 200	4.8
		Nitrate (mg/l)	APHA 4500NO <sub>3</sub> <sup>-</sup> B:2005	0.5 - 3	0.01
		Free Ammonia (mg N/l)	APHA 4500NH <sub>3</sub> - D:2005	0.01-1400	0.00
		Sulphate ( mg SO <sub>4</sub> /l)	APHA 4500SO <sub>4</sub> <sup>-</sup> E:2005	1 - 40	0.6
		Fluoride (mg F/l)	APHA 4500F <sup>-</sup> C:2005	0.01-1900	0.03
		Total Phosphorous (mg PO <sub>4</sub> /l)	APHA 4500 - P E:2005	0.1 – 0.6	0.03
		Alkalinity (mg CaCO <sub>3</sub> /l)	APHA,2320 B:2005	Less than 1	0.4
		Magnesium (mg/kg)	APHA 3500-Mg B:2005	1-100	0.11
		Potassium (mg/kg)	APHA,3500K B:2005	0.5-8	0.28
		Sodium (mg/kg)	APHA,3500Na B:2005	0.5-10	0.06
		Nitrite (mg/kg)	APHA,4500N B:2005	0.05-2.5	0.04
		Dissolve Oxygen (mg/l)	APHA,4500-0 C:2005	1-8	0.06
		Kjeldhal nitrogen (mg/l)	APHA, 4500 – N <sub>org</sub> B:2005	2-100	0.2
		Residual chlorine (mg/l)	APHA, 4500Cl B:2005	1-2	0.11
		Free Co <sub>2</sub> (mg/l)	APHA,4500Co <sub>2</sub> C:2005	1-10	0.03
		Oil & Grease (mg/l)	APHA,5520 B:2005	2-50	0.06
		Dry residues (mg/l)	APHA,2540 B:2005	1-200	0.31
Total Suspended Solids (mg/l)	APHA 2540 D:2005	10	0.51		
Total Dissolved Solids (mg/l)	APHA 2540 C:2005	10	0.16		

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<b>Water</b>					
02	Waste Water	Turbidity (NTU)	APHA,2130 B:2005	1-800	0.72
		Vanadium (as V) (mg/l)	APHA,3500:2005	1 -10	1.0
		Selenium (as Se) (mg/l)	APHA,3500:2005	1 -10	1.0
		Conductivity (µS/cm)	APHA,2510 B:2005	20-2000	9.04
		Oil & Grease (mg/l)	APHA,5520 B:2005	5-50	0.06
		Lead (mg/kg)	APHA,3500:2005	0.5-100	0.24
		Copper (mg/kg)	APHA,3500:2005	0.3-100	0.26
		Cadmium (mg/kg)	APHA,3500:2005	0.15-100	0.13
		Colour (Hazen)	ISO 7887:1994	2.5 -30	0.8
		Silicate (mg/kg)	APHA,4500 SiO <sub>2</sub> C:2005	0.5-40	0.10
		Total Suspended Solids (mg/l)	APHA 2540 D:2005	1-10	0.51
		Total Dissolved Solids (mg/l)	APHA 2540 C:2005	1-10	0.16
<b>Pollution &amp; Effluents</b>					
01	Effluents & Trade Wastes	pH	APHA 4500H+:2005 (B)	1 -14	0.03
		Chemical Oxygen Demand (COD) ( mg/l)	APHA 5220 B & C :2005	5-10 000	37.72
		Biochemical Oxygen Demand (mg/l)	APHA 5210 B :2005	1 - 1500	30

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<b>Fertilizer</b>					
01	Sulphate of Ammonia	Moisture (%)	SLS 645 Part 2: 1984- Method 1	0.01-30	3.42
		Ammoniacal Nitrogen, as N (%)	SLS 645 Part 1:Section 2:1984	0.01-90	1.83
		Free Acidity, as H <sub>2</sub> SO <sub>4</sub> (%)	SLS 620:1983	0.01-20	4.02
02	Di Ammonium Phosphate	Moisture (%)	SLS 645 Part 2 :1985 Method 2	0.01-30	3.42
		Ammoniacal Nitrogen, as N (%)	SLS 645:Part 1 :section 2:1984	0.01-90	1.83
		Total phosphate, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0.01-60	1.43
		Water soluble phosphate, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0.01-95	3.34
03	Single super phosphate (Granular and Powder form)	Moisture (%)	SLS 645 Part 2: 1984 Method 1	0.01-30	3.42
		Total phosphate as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0.01-80	1.43
		Water soluble phosphate, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0.01-95	3.34
		Free phosphoric acid, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 1318: 2007 Appendix B	0.01-10	4.84
		Cadmium (mg/Kg)	SGSLKLCHE-SOP 02	0.01-1000	10.39
04	Urea (prilled and Granular )	Moisture (%)	SLS 645 Part 2: 1984 Method 1	0.01-30	3.42
		Total Nitrogen, as N (on dry basis) (%)	SLS 645:Part 1:1984	0.01-90	1.83
		Biuret (%)	SLS 645:Part 3:1986, Section 1 & 2	0.01-5	5.21
05	MOP	Moisture (%)	SLS 645 Part 2: 1984 Method 1	0.01-30	3.42
		Sodium, as NaCl (on dry basis) (%)	SLS 645:Part 7:Section 2 :1994	0.01-20	2.81
		Potassium content (%)	SLS 645:1989 Part 4, Section1	0.01-60	2.02

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<b>Fertilizer</b>					
06	TSP	Moisture (%)	SLS 645 Part 2: 1984 Method 1	0-30	3.42
		Total Phosphate, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0-60	1.43
		Water soluble phosphate, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0-95	3.34
		Cadmium (mg/Kg)	SGSLKLCHE-SOP 02	0-1000	16.78
		Free phosphate, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 1318 : 2007 Appendix B	0-10	4.84
07	Mixed Fertilizer	Moisture (%)	SLS 645 Part 2: 1984 Method 1	0-30	3.42
		Total nitrogen ,as N (%)	SLS 645:Part 1: Section 3: 1984	0-90	1.83
		Total Phosphorous, as P <sub>2</sub> O <sub>5</sub> (%)	SLS 645:Part 5:1985	0-60	1.43
		Cadmium (mg/Kg)	SGSLKLCHE-SOP 02	0-1000	16.78
		Magnesium (mg/Kg)	SLS 645:Part 6 : Section 3: 1990	0-1000	2.02

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	<b>Soil</b>	Cadmium ( extractable as Cd) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Chromium (extractable as Cr) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Copper (extractable as Cu) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Lead ( extractable as Pb) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Molybdenum (extractable as MO) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Nickel (extractable as Ni) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Vanadium (extractable V) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Zinc (extractable Zn) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Boron (extractable as B) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Cobalt (extractable as Co) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Iron (extractable as Fe) (mg/kg)	ASTM D 3974: 2009	2-100	2.0
		Manganese (extractable as Mn) (mg/kg)	ASTM D 3974 -2009	2-100	2.0
		Total Nitrogen (mg/g)	ISO 11261:1995	1-50	0.1
		pH at 20 -25 °C	ISO 10390: 2005	1.5-14	0.12
		Total phosphorus (mg/kg)	ISO 11263:1994	2-100	2.0
		Organic Carbon (g/kg)	ISO 14235:1998	0.5 – 200	0.48

Acting Director /CEO  
Sri Lanka Accreditation Board for Conformity Assessment