



Valid from 20 March 2023  
to 29 June 2023  
Issued on 30 March 2023

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



ISO/ IEC 17025  
TL 004-01

## Schedule of Accreditation

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

Accreditation Number: TL 004-01

**Chemical & Microbiology Laboratory,  
Industrial Technology Institute,  
No.120 / 4 A, Vidya Mawatha,  
Colombo 07.**

**Scope of Accreditation:** Performing Chemical Testing on Products Categories of Food & Agricultural Products, Fertilizer, Waste Water & Water and Sampling of Waste Water & Water as per the Test Methods appearing in this Schedule.

The Laboratory is accredited for the following tests appear on page 02 to 04, Page 03 of 04 and page 04 of 04;

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection
01	Cashew	Moisture (%)	SLS 405: 1976	0.1 – 20 %
		Grading	SLS 405: 1976	-
02	Tea, Green tea, decaffeinated tea products	Caffeine	ISO 10727	LOQ 0.1mg/100g
03	Tea	Moisture (%)	ISO 1573 - 1980 (E)	0.1 – 20.0 (%)
		Total Ash (%)	ISO 1575 – 1987 (E)	0.1– 20.0 (%)
		Water Soluble Ash (%)	ISO 1576 – 1988 (E)	0.1 – 10.0 (%)
		Alkalinity of Water-soluble Ash (%)	ISO 1578 – 1975 (E)	0.1– 10.0 (%)
		Acid Insoluble Ash (%)	ISO 1577 – 1987 (E)	0.01 – 5 (%)
		Crude Fibre (%)	ISO 15598 – 1999 (E)	0.1 – 20.0 (%)
		Water Extract (%)	ISO 9768 – 1994 (E)	0.1- 80.0 (%)
04	Margarine	Vitamin E	CML/MM/03/05/001/V1.4	0.3-1000mg/100g LOD 270 µg/100g
05	Margarine and Milk powder	Vitamin A	CML/MM/03/05/001/V1.4	100 µg /100g to 1000µg /100g
06	Fruit and vegetable products	Sorbic acid	SLS 1332-3-2008	10mg/100g to 50mg/100g
		Benzoic acid	SLS 1332-3-2008	10mg/100g to 50mg/100g
07	Fertilizer & Fertilizer Mixtures	Total Potassium (%)	SLS 645: Part 4: 1989	0.1-70.0 %
		Total Phosphorous (%)	SLS 645: Part 5:1985	0.1-50.0 %
08	Urea	Biuret (%)	SLS 645: Part 3:2009	0.1-1.5 %
		Total Nitrogen	SLS 645: Part 1:2009	0.1-50%
09	Cereal based Food items	Moisture	CML/MM/03/07/001/V1.1	LOD = 0.1 %
		Total Ash	CML/MM/03/07/002/V1.1	LOD = 0.1 %
		Protein	CML/MM/03/07/006/V1.1	LOD = 0.1 %
		Crude Fibre	CML/MM/03/07/008/V1.1	LOD = 0.1 %
		Total Sugar	CML/MM/03/07/009/V1.1	LOD = 2.0 %

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10	Water and Waste water	pH	APHA 4500 – H <sup>+</sup> B (23 <sup>rd</sup> edition)	1 -12
		EC	APHA 2510 B (23 <sup>rd</sup> edition)	1- 25,000 µS/cm
		COD (closed reflux)	APHA 5220 –D (23 <sup>rd</sup> edition)	5–150 (mg/L) 30-900 (mg/L)
		Alkalinity	APHA 2310 B (23 <sup>rd</sup> edition)	> (1 mg /L)
		Chloride	APHA 4500 – Cl <sup>-</sup> B (23 <sup>rd</sup> edition)	1- 400 (mg/L)
		Total Hardness	APHA 2340 C (23 <sup>rd</sup> edition)	> (1 mg /L)
		Total Dissolved Solids	APHA 2540 C (23 <sup>rd</sup> edition)	20–20,000 (mg/L)
		Total Solids	APHA 2540B (23 <sup>rd</sup> edition)	20–20,000 mg/L)
		Total Suspended Solids	APHA 2540 D (23 <sup>rd</sup> edition)	1 – 20,000 (mg/L)
		Turbidity	APHA 2130 B (23 <sup>rd</sup> edition)	1.0-100 NTU
		BOD <sub>3</sub> & BOD <sub>5</sub>	APHA 5210 D (23 <sup>rd</sup> edition)	1– 1000 (mg/L)
		Total Phosphorous (water)	APHA 4500 P, B & C (23 <sup>rd</sup> edition)	1 – 25 (mg/L) as PO <sub>4</sub> 0.5- 8.0 (mg/L) as P
		Total Phosphorous / Total Phosphate (Waste water)		
		Kjeldahl Nitrogen (as N)	APHA 4500 N organic C & NH <sub>3</sub> C (23 <sup>rd</sup> edition)	> 5 (mg/L)
		Ammoniacal Nitrogen (as N)	APHA 4500 NH <sub>3</sub> B & C (23 <sup>rd</sup> edition)	5 – 100 (mg/L)
		Sulfide (as S)	APHA 4500 S <sup>2-</sup> C & F (23 <sup>rd</sup> edition)	0.2 - 25 (mg/L)
		Nitrate (as N)	APHA 4500 NO <sub>3</sub> B (23 <sup>rd</sup> edition)	0.1 – 1.2 (mg/L)
		Nitrite (as N)	APHA 4500 NO <sub>2</sub> B (23 <sup>rd</sup> edition)	0.01 – 1 (mg/L)
		Phenolic compounds	APHA 5530 B & D (23 <sup>rd</sup> edition)	0.1 – 5 (mg/L)
		Oil & Grease	APHA 5520 B (23 <sup>rd</sup> edition)	> 2 (mg /L)
		Hexavalent Chromium	APHA 3500 Cr B (23 <sup>rd</sup> edition)	> 0.05 (mg /L)
		Fluoride (as F <sup>-</sup> )	APHA 4500 FC (23 <sup>rd</sup> edition)	0.4 – 10 (mg/L)
		Total Iron	APHA 3500 Fe B (23 <sup>rd</sup> edition)	0.1 – 1.0 (mg/L)
		Anionic surfactant	APHA 5540 C (23 <sup>rd</sup> edition)	0.05– 2 (mg/L)
		Turbidity	APHA 2130 B (23 <sup>rd</sup> edition)	1.0 – 1000 (NTU)

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10	Water and Waste water	Colour at 436 nm 525 nm 620 nm	ISO 7887:2011	> 0.1 m <sup>-1</sup>
		Sulphate	Modified APHA 4500 SO <sub>4</sub> <sup>2-</sup> (23 <sup>rd</sup> edition)	10 – 80 (mg/L)
		Calcium	APHA 3500 Ca B (23 <sup>rd</sup> edition)	> (1 mg /L)
		Total Nitrogen	APHA 4500 NO <sub>3</sub> B, NO <sub>2</sub> B, N org C & NH <sub>3</sub> C (23 <sup>rd</sup> edition)	> (5 mg/L)
		Sampling	APHA 1060 (23 <sup>rd</sup> edition)	-
11	Water	Chloride	APHA 4110 B	1-30 (mg/L)
		Nitrite		0.1-1.0 (mg/L) as NO <sub>2</sub>
		Nitrate		0.1-10.0 (mg/L) as NO <sub>3</sub>
		Fluoride		1-5.0 (mg/L)
		Ortho Phosphate		0.5 -5.0 (mg/L) as PO <sub>4</sub>
		Sulfate		1-20 (mg/L)
12	Waste Water	Dissolved Phosphorous/ Dissolved Phosphate	APHA 4500 P, B & C	1-25 (mg/L)

Director/CEO  
Sri Lanka Accreditation Board for Conformity Assessment