

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



Valid from 30 June 2023  
to 29 June 2026  
Issued on 28 December 2023



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

**Scope of Accreditation:** Performing Chemical Testing on Products Categories of Food & Agricultural Products (Cashew, Tea, Green tea, decaffeinated tea products, Tea, Margarine, Margarine and Milk powder, Fruit and vegetable products, Cereal and cereal based Food items), Water and waste water as per the test Methods appearing in this Schedule.

The Laboratory is accredited for the following tests appear on page 02 of 04 to 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 content	ISO 10727:2002 (E)	LOQ 0.1mg/100g Limit of reporting 0.01%
03	Tea	Moisture (%)	ISO 1573 - 1980 (E) SLS 28:2008-Part 2	0.1 – 20.0 (%)
		Total Ash (%)	ISO 1575 – 1987 (E) SLS 28:2008-Part 3	0.1– 20.0 (%)
		Water Soluble Ash (%)	ISO 1576 – 1988 (E) SLS 28:2008-Part 4	0.1 – 10.0 (%)
		Alkalinity of Water-soluble Ash as KOH (%)	ISO 1578 – 1975 (E) SLS 28:2008-Part 6	0.1– 10.0 (%)
		Acid Insoluble Ash (%)	ISO 1577 – 1987 (E) SLS 28:2008-Part 5	0.01 – 5 (%)
		Crude Fibre (%)	Modified ISO:15598 – 1999 –V1.0	0.1 – 20.0 (%)
		Water Extract (%)	ISO 9768 – 1994 (E) SLS 28:2008-Part 7	0.1- 80.0 (%)
04	Margarine	Vitamin E	CML/MM/03/05/001/V1.6	0.3-1000mg/100g LOD 270 µg/100g
05	Margarine and Milk powder	Vitamin A	CML/MM/03/05/001/V1.6	100 – 10000 µg/100g LOD 100µg/100g
06	Fruit and vegetable products	Sorbic acid	SLS 1332-3-2008	10mg to 50mg/100g
		Benzoic acid		
07	Cereal and 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 %

SI NO	Product(s) / Material of test	Specific tests performed	Test Method/Standard against which tests are performed	Range of testing/ Limits of detection	
08	Water and waste water	pH	APHA 4500 – H <sup>+</sup> B	1 -12	
		EC	APHA 2510 B	1- 25,000 μS/cm	
		Total Dissolved Solids (At 180 °C)	APHA 2540 C	20–20,000 (mg/L)	
		Total Solids (At 103-105 °C)	APHA 2540B	20–20,000 mg/L)	
		Sampling	APHA 1060	-	
	Waste water	Dissolved Phosphate (as P)	APHA 4500 P B & C	3 – 18 (mg/L)	
	Water			1 – 5 (mg/L)	
	Waste water	Phenols (as phenol)	APHA 5530 B & D	1 – 5 (mg/L)	
	Water			0.1 – 0.5 (mg/L)	
	Waste water	Oil & Grease	APHA 5520 B	> 1 (mg /L)	
	Water			> 5 (mg /L)	
	09	Water	Alkalinity	APHA 2320 B	> (1 mg /L)
			Chloride	APHA 4500 – Cl <sup>-</sup> B	>2
			Total Hardness	APHA 2340 C	> (2 mg /L)
Turbidity			APHA 2130 B	1.0-1000 NTU	
BOD			APHA 5210 D	15– 1000 (mg/L)	
COD			APHA 5220 D	5 – 150	
Total Phosphorous (as PO <sub>4</sub> <sup>3-</sup> )			APHA 4500 P, B & C	1 – 27 (mg/L)	
Sulfate (as SO <sub>4</sub> <sup>2-</sup> )			Modified APHA 4500 SO <sub>4</sub> <sup>2-</sup>	2 - 70 (mg/L)	
Nitrate (as NO <sub>3</sub> <sup>-</sup> )			APHA 4500 NO <sub>3</sub> B	0.5 – 44.0 (mg/L)	
Nitrite (as NO <sub>2</sub> <sup>-</sup> )			APHA 4500 NO <sub>2</sub> B	0.03 – 2.4 (mg/L)	
Calcium			APHA 3500Ca B	>1 (mg/L)	
Fluoride (as F <sup>-</sup> )			APHA 4500 FC	0.2 – 10 (mg/L)	
Total Iron			APHA 3500 Fe B	0.025 – 2.0 (mg/L)	
Nitrate (as NO <sub>3</sub> <sup>-</sup> )			CML/MM/02/02/034/V 1.3	0.9 – 5.0 (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
09	Water	Chloride (as Cl <sup>-</sup> )	APHA 4110 B	1-200 (mg/L)
		Nitrite (as NO <sup>2-</sup> )		0.1-1.0 (mg/L)
		Nitrate (as NO <sup>3-</sup> )		0.1-50.0 (mg/L)
		Fluoride (as F <sup>-</sup> )		0.1-10.0 (mg/L)
		Phosphate (as PO <sub>4</sub> <sup>3-</sup> )		0.5 -10 (mg/L)
		Sulfate (as SO <sup>4-</sup> )		1-100 (mg/L)
10	Waste water	Total Suspended Solids (At 103-105 °C)	APHA 2540 D	10 – 20,000 (mg/L)
		COD	APHA 5220 D	30- 900 (mg/L)
		Kjeldahl Nitrogen (as N)	APHA 4500 N organic C & NH <sub>3</sub> C	> 5 (mg/L)
		Ammoniacal Nitrogen (as N)	APHA 4500 NH <sub>3</sub> B & C	5 – 100 (mg/L)
		Sulphide (as S <sup>2-</sup> )	APHA 4500 S C & F	0.2 – 25 (m/L)
		Total Nitrogen (as N)	APHA 4500 N org C & NH <sub>3</sub> C, NO <sub>3</sub> B, NO <sub>2</sub> B/CML/MM/02/02/019/ V1.2)	> (5 mg/L)
		Colour	ISO 7887:2011	> 0.1 m <sup>-1</sup>
		Chloride (as Cl <sup>-</sup> )	APHA 4500 – Cl <sup>-</sup> B	1- 400 (mg/L)
	Waste water – High Range	Total Phosphate (as P)	APHA 4500 P B & C	3 – 18 (mg/L)
				Waste water – Low Range
11	Fertilizer & Fertilizer Mixtures	Total Potassium (%)	SLS 645: Part 4: 1989	LOD 0.04%
		Total Phosphorous (%)	SLS 645: Part 5:1985	LOD 0.01%
12	Urea	Biuret (%)	SLS 645: Part 3:2009	0.4% - 2.0%
		Total Nitrogen	SLS 645: Part 1:2009	LOD 0.1%

Director/CEO  
Sri Lanka Accreditation Board for Conformity Assessment