

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



Valid from 17 August 2015  
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Issued on 21 December 2015



ISO/IEC 17025  
TL 004 - 01

## Schedule of Accreditation

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

Accreditation Number: TL 004 – 01

Chemical and Microbiology Laboratory  
Industrial Technology Institute  
No.210 / 4, Wijerama Mawatha  
Colombo 07.

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

The laboratory is accredited for the following tests.

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 (%) LoD 0.1%
		Grading	SLS 405 : 1976	–
02	Fish	Lead	CML /MM/ Fish / 002/V 1.4	0.5-5.0 mg/kg LoD 0.5mg/kg
		Arsenic		0.05 – 5.0 mg/kg LoD 0.05mg/kg
		Mercury		0.05 – 5.0 mg/kg LoD 0.05mg/kg
		Cadmium		0.05 – 5.0 mg/kg LoD 0.05mg/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
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	Milk Powder	Vitamin A	CML /MM/ 03/05/001/ V 1.4	100-10000 µg/100g LoD 100 µg/100g
05	Margarine	Vitamin A	CML /MM/ 03/05/001/ V 1.4	100-10000µg//100g LoD 100 µg/100g
		Vitamin E		0.3-1000mg/100g LoD 270 µg/100g
06	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 (%)
		Total Nitrogen (%)	SLS 645 : Part 1:2009	0.1 – 50.0 (%)
07	Urea	Biuret (%)	SLS 645 : Part 3: 2009	0.1 – 1.5 (%)
		Total Nitrogen (%)	SLS 645 : Part 1: 2009	0.1 – 50 (%)

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08	Water and Waste Water	pH	APHA 4500 – H <sup>+</sup> B	1 – 12
		Electrical Conductivity	APHA 2510 B	1– 25000 (µS/cm)
		COD (closed reflux)	Modified APHA5220 -D	5 – 25 (mgO <sub>2</sub> /L) 25 – 1500 (mg O <sub>2</sub> /L)
		Alkalinity	APHA 2320 B	> 1 (mg/L)
		Chloride	APHA 4500 – Cl <sup>-</sup> B	1 – 400 (mg/L)
		Total Hardness	APHA 2340 C	> 1 (mg/L)
		Total Dissolved Solids (Dried at 180°C)	APHA 2540 C	20– 4000 (mg/L)
		Total Solids (Dried at 103-105°C)	APHA 2540 B	20 – 4000 ( mg/L)
		Total Suspended Solids (Dried at 103-105°C)	APHA 2540 D	1– 4000 (mg/L)
		Turbidity	APHA 2130 B	1.0 –1000 (NTU)
		BOD <sub>3</sub> & BOD <sub>5</sub>	APHA 5210 D	15 – 350 (mg/L)
		Fluoride	APHA 4500 F C	0.1– 10.0 (mg/L)
		Total Iron	APHA 3500 – Fe B	0.1 – 2.0 (mg/L)
		Total Phosphorous as PO <sub>4</sub>	APHA 4500 P, B & C	1 – 20 (mg/L)
Ammonical Nitrogen	APHA 4500 NH <sub>3</sub> B& C	5- 100 (mg/L)		

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08	Water and Waste Water	Nitrate (screening) as NO <sub>3</sub> -N	APHA 4500- NO <sub>3</sub> <sup>-</sup> B	0.1 – 1.2 (mg/L)
		Nitrite	APHA 4500 –NO <sub>2</sub> <sup>-</sup> B	0.01 – 1 (mg/L)
		Cr ( AAS / Flame )	APHA 3111 B	0.05 -8.0 (mg/L)
		Cd ( AAS / Flame )	APHA 3111 B	0.02 -3.0 (mg/L)
		Mn ( AAS / Flame )	APHA 3111 B	0.02 -5.0 (mg/L)
		Fe ( AAS / Flame )	APHA 3111 B	0.1 -8.0 (mg/L)
		Pb ( AAS / Flame )	APHA 3111 B	0.1 -10.0 (mg/L)
		Sb ( AAS / Flame )	APHA 3111 B	0.5 -8.0 (mg/L)
		Co ( AAS / Flame )	APHA 3111 B	0.05 -5.0 (mg/L)
		Cu ( AAS / Flame )	APHA 3111 B	0.05 -5.0 (mg/L)
		Ni ( AAS / Flame )	APHA 3111 B	0.1 -6.0 (mg/L)
		Zn ( AAS / Flame )	APHA 3111 B	0.02 -2.0 (mg/L)
		Ag ( AAS / Flame )	APHA 3111 B	0.5 -15.0 (mg/L)
		K ( AAS / Flame )	APHA 3111 B	1.00- 5.0 (mg / L)
		Na ( AAS / Flame )	APHA 3111 B	2.00– 10.0 (mg/L)

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08	Water and Waste Water	Ni ( AAS / GTA )	APHA 3113 B	10.0–50.00 (µg / L)
		Cd ( AAS / GTA )	APHA 3113 B	1.0–10.00 (µg / L)
		Pb ( AAS / GTA)	APHA 3113 B	10.0 – 50.00 (µg / L)
		Al ( AAS / GTA)	APHA 3113 B	50.0 –250.00 (µg / L)
		Sb ( AAS / GTA)	APHA 3113 B	10.0 –50.00 (µg / L)
		Mn ( AAS / GTA)	APHA 3113 B	2.00 – 10.00 (µg / L)
		As ( AAS / VGA)	APHA 3114 C	0.001– 0.025(mg / L)
		Se ( AAS / VGA)	APHA 3114 C	0.001–0.025 (mg / L)
		Al ( AAS / Flame)	APHA 3111 D	0.50 – 50.0 (mg/L)
		Ba ( AAS / Flame)	APHA 3111 D	0.50 – 8.0 (mg/L)
		Silica ( AAS / Flame)	APHA 3111 D	3.00 – 50.0 (mg/L)
		Sn ( AAS / Flame)	APHA 3111 D	1.00 – 50.0 (mg/L)
		V ( AAS / Flame)	APHA 3111 D	1.00 – 50.0 (mg/L)
		Ca ( AAS / Flame)	APHA 3111 D	0.01 -3.0 (mg/L)
09	Waste Water and Water	Sampling	APHA 1060 Modified (CML/MM/W & WS/022)	-

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection
10	Water (Pesticide Residue )	$\alpha$ HCH	CML/ MM /04/01/001	0.08 – 0.4 $\mu$ g /L
		$\beta$ HCH		0.08 – 0.4 $\mu$ g /L
		$\gamma$ HCH		0.08 – 0.4 $\mu$ g /L
		$\delta$ HCH		0.08 – 0.4 $\mu$ g /L
		Hepatachlor		0.08 – 0.4 $\mu$ g /L
		Aldrine		0.08 – 0.4 $\mu$ g /L
		Hepatachloroepoxide		0.08 – 0.4 $\mu$ g /L
		Endosulfan I		0.08 – 0.4 $\mu$ g /L
		Endosulfan II		0.08 – 0.4 $\mu$ g /L
		Dieldrin		0.08 – 0.4 $\mu$ g /L
		P,P' DDE		0.08 – 0.4 $\mu$ g /L
		O,P, DDD		0.08 – 0.4 $\mu$ g /L
		P,P' DDD		0.08 – 0.4 $\mu$ g /L
		Endrin Aldehyde		0.08 – 0.4 $\mu$ g /L
Endosulfan Sulphate	0.08 – 0.4 $\mu$ g /L			

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10	Water (Pesticide Residue )	P,P' DDT	CML/ MM / 04/01/001	0.08 – 0.4 µg /L
		Endrin		0.08 – 0.4 µg /L
		Trifluralin		0.08 – 0.4 µg /L
		HCB		0.08 – 0.4 µg /L
		Dimethoate		1 – 4 µg /L
		Fenitrothion		1 – 4 µg /L
		Malathion		1 – 4 µg /L
		Profenophos		1 – 4 µg /L
		Pirimiphos methyl		1 – 4 µg /L
		Chlopyrifos		1- 4 µg /L
		Phenthoate		1- 4 µg /L
Diazinon	1- 4 µg /L			