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

Valid until 16 August 2012
Issued on 17 August 2009

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	Uncertainty (±)
01	Cashew	Moisture (%)	SLS 405 – 1976	0 – 20 (%)	0.01 (%)
		Grading	SLS 405 – 1976	–	–
02	Fish	Histamine (ppm)	CML/MM/FISH –001/V1.1	1 – 500 mg/kg	8 (%)
		Lead Arsenic Mercury Cadmium	CML / Fish / 002/V 1.2	0.5-5.0 mg/kg 0.05 – 5.0 mg/kg 0.05 – 5.0 mg/kg 0.05 – 5.0 mg/kg	15 (%) 16 (%) 10 (%) 17 (%)

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
03	Tea	Moisture (%)	SLS : 28 – 2008 ISO 1573 - 1980 (E)	0 – 20.0 (%)	0.01 (%)
		Total Ash (%)	SLS : 28 – 2008 ISO 1575 – 1987 (E)	0 – 20.0 (%)	0.01 (%)
		Water Soluble Ash (%)	SLS : 28 – 2008 ISO 1576 – 1988 (E)	0 – 10.0 (%)	0.02 (%)
		Alkalinity of Water soluble Ash (%)	SLS : 28 – 2008 ISO 1578 – 1975 (E)	0 – 10.0 (%)	1.6 (%)
		Acid Insoluble Ash (%)	SLS : 28 – 2008 ISO 1577 – 1987 (E)	0 – 5 (%)	0.02 (%)
		Crude Fibre (%)	SLS : 28 – 2008 ISO:15598 – 1999 (E)	0 – 20.0 (%)	0.03 (%)
		Water Extract (%)	SLS : 28 – 2008 ISO 9768 – 1994 (E)	0 – 80.0 (%)	0.02 (%)
04	Milk Powder	Vitamin A & E in Food & Pharmaceuticals	CML /MM/ VIT/ 003/V 1.2	15-10000 µg/100g	7.5 (%)
05	Margarine	Vitamin E	CML / Vit / 001	3-1000 mg/100g	7.9 (%)
06	Fertilizer	Total Potassium (%)	SLS 645 : 1989 Part 4	0 – 70.0 (%)	3.3 (%)
		Total Phosphorous (%)	SLS 645 : 1989 Part 5	0 – 50.0 (%)	4.1 (%)
		Total Nitrogen (%)	SLS 645 : 1984 Part 1	0 – 50.0 (%)	0.7 (%)
07	Urea	Biuret (%)	SLS 645 : 1986 Part 3	0 – 1.5 (%)	2.9 (%)
		Total Nitrogen (%)	SLS 645 : 1984 Part 1	0 – 50 (%)	0.7 (%)

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
08	Waste Water and Water	pH	APHA 4500 – H^+B	1 – 12	4 (%)
		Electrical Conductivity	APHA 2510 B	1– 25000 (µS/cm)	4 (%)
		COD (open)	APHA 5220 B	5 – 25 (mg/L) 25 – 1500(mg/L)	7 (%) 4 (%)
		COD (closed)	Modified APHA5220 -D	25 – 1500 (mg/L) 5 -25 (mg/L)	4 (%) 10 (%)
		Alkalinity	APHA 2320 B	> 1 (mg/L)	4 (%)
		Chloride	APHA 4500 – Cl^- B	1 – 400 (mg/L)	4 (%)
		Total Hardness	APHA 2340 C	> 1 (mg/L)	4 (%)
		Total Dissolved Solids	APHA 2540 C	20– 4000 (mg/L)	5 (%)
		Total Solids	APHA 2540 B	20 – 4000 (mg/L)	5 (%)
		Total Suspended Solids	APHA 2540 D	1– 4000 (mg/L)	3 (%)
		Turbidity	APHA 2130 B	1.0 –1000 (NTU)	20 (%)
		BOD	APHA 5210 D	15 – 350 (mg/L)	5 (%)
		Fluoride	APHA 4500 F C	0.1– 10.0 (mg/L)	6 (%)
		Total Iron	APHA 3500 – Fe B	0.1 – 2.0 (mg/L)	5 (%)
		Total Phosphorous	APHA 4500 P, B & C	1 – 25 (mg/L)	10 (%)
		Ammoniacal Nitrogen	APHA 4500 NH_3 B& C	5- 100 (mg/L)	5 (%)
		Nitrate (phenoldisulfonic)	SLS 614 : Part 1 : 1983	0.1 – 1.2 (mg/L)	7 (%)

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
08	Water and Waste Water	Nitrate (screening)	APHA 4500- NO_3^- B	0.1 – 1.2 (mg/L)	4 (%)
		Nitrite	APHA 4500 –NO_2^- B	0.01 – 1 (mg/L)	14 (%)
		Cr (AAS / Flame)	APHA 3111 B	0.05 -8.0 (mg/L)	1(%)
		Cd (AAS / Flame)	APHA 3111 B	0.02 -3.0 (mg/L)	1(%)
		Mn (AAS / Flame)	APHA 3111 B	0.05 -5.0 (mg/L)	1(%)
		Fe (AAS / Flame)	APHA 3111 B	0.1 -8.0 (mg/L)	1(%)
		Pb (AAS / Flame)	APHA 3111 B	0.1 -10.0 (mg/L)	2 (%)
		Sb (AAS / Flame)	APHA 3111 B	0.5 -8.0 (mg/L)	1 (%)
		Co (AAS / Flame)	APHA 3111 B	0.05 -5.0 (mg/L)	1 (%)
		Cu (AAS / Flame)	APHA 3111 B	0.05 -5.0 (mg/L)	1 (%)
		Ni (AAS / Flame)	APHA 3111 B	0.1 -6.0 (mg/L)	1 (%)
		Zn (AAS / Flame)	APHA 3111 B	0.02 -2.0 (mg/L)	1 (%)
		Ag (AAS / Flame)	APHA 3111 B	0.5 -15.0 (mg/L)	2 (%)
		K (AAS / Flame)	APHA 3111 B	1.00- 5.0 (mg / L)	4 (%)
		Na (AAS / Flame)	APHA 3111 B	2.00– 10.0(mg/L)	4 (%)
		Cd (AAS / GTA)	APHA 3113 B	1.00 –10.00 (µg / L)	3 (%)

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
08	Waste Water and Water	Ni (AAS / GTA)	APHA 3113 B	10.0–50.00 (µg / L)	6 (%)
		Pb (AAS / GTA)	APHA 3113 B	10.0 – 50.00 (µg / L)	6 (%)
		Al (AAS / GTA)	APHA 3113 B	50.0 –250.00 (µg / L)	6 (%)
		Sb (AAS / GTA)	APHA 3113 B	50.0 –250.00 (µg / L)	6 (%)
		Mn (AAS / GTA)	APHA 3113 B	2.00 – 10.00 (µg / L)	6 (%)
		As (AAS / VGA)	APHA 3114 C	0.001– 0.025(mg / L)	6 (%)
		Se (AAS / VGA)	APHA 3114 C	0.001–0.025 (mg / L)	7 (%)
		Al (AAS / Flame)	APHA 3111 D	0.50 – 50.0 (mg/L)	4 (%)
		Ba (AAS / Flame)	APHA 3111 D	0.50 – 8.0 (mg/L)	1(%)
		Silica (AAS / Flame)	APHA 3111 D	3.00 – 50.0 (mg/L)	2 (%)
		Sn (AAS / Flame)	APHA 3111 D	1.00 – 50.0 (mg/L)	1 (%)
		V (AAS / Flame)	APHA 3111 D	1.00 – 50.0 (mg/L)	4 (%)
		Ca (AAS / Flame)	APHA 3111 D	0.01 -3.0 (mg/L)	4 (%)
09	Waste Water and Water	Sampling	APHA 1060 Modified - (CML/MM/W & WS /023)		

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
10	Water (Pesticide Residue)	α HCH	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		β HCH	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		γ HCH	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		δ HCH	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Hepatachlor	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Aldrine	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Hepatachloroepoxide	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Endosulfan I	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Endosulfan II	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Dieldrin	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		P,P' DDE	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		O,P, DDT	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		O.P, DDD	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		P,P' DDD	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Endrin Aldehyde	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Endosulfan Sulphate	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)

SI NO.	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
10	Water (Pesticide Residue)	P,P' DDT	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Endrin	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Trifulin	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		HCB	CML/ MM / W & WS / 022	0.08 – 0.4 µg /L	46 (%)
		Dimethoate	CML/ MM / W & WS / 022	1 – 4 µg /L	74 (%)
		Fenitrothion	CML/ MM / W & WS / 022	1 – 4 µg /L	74 (%)
		Malathion	CML/ MM / W & WS / 022	1 – 4 µg /L	72 (%)
		Profenophos	CML/ MM / W & WS / 022	1 – 4 µg /L	74 (%)
		Captan	CML/ MM / W & WS / 022	1 – 4 µg /L	72 (%)
		Pirimiphos methyl	CML/ MM / W & WS / 022	1 – 4 µg /L	72 (%)
		Chlopyrifos	CML/ MM / W & WS / 022	1- 4 µg /L	72 (%)
		Phenthoate	CML/ MM / W & WS / 022	1- 4 µg /L	72 (%)
		Diazinon	CML/ MM / W & WS / 022	1- 4 µg /L	72 (%)

Director /CEO
Sri Lanka Accreditation Board for Conformity Assessment