



Valid from 18 October 2017
to 17 September 2018
Issued on 18 December 2017

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



ISO/ IEC 17025
CL 002- 01

Schedule of Accreditation

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

Accreditation Number: CL 002 -01

Metrology Division

Sri Lanka Standards Institution

No 17, Victoria Place

Elvitigala Mawatha, Colombo 08

Scope of Accreditation: Performing Mechanical calibration (Mass, Length, Pressure & Force) and Thermal calibration as per the calibration methods appearing in the schedule

The Laboratory is accredited for the following calibrations.

Sl	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC approximately at 95% confidence level	Location
Mechanical Calibration (Force)						
01	Calibration of Force-providing instruments used for the verification of uni axial testing machines	ISO 376:2011	8kN–100kN	Proving Ring- 0.1 division 0.2 Load Cells- 0.00001 mV/ V	2.0×10^{-1}	SLSI
02	Verification & Calibration of Force Measuring Systems	ISO 7500-1: 2015	1) 20kN – 2000kN (Compression) ii) 20 N/ 50 kN (Tension)	Proving Ring- 0.1 division Load Cells- 0.001 mV, 0.1 kN & 1kgf	2.2×10^{-1}	SLSI/ In-situ

SI	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC approximately at 95% confidence level	Location
Mass						
01	Mass/ weight/ Weights (Class F1 & Below Class F1)	DM/M/TM/02 based on OIML R-111: 2004 (Double Substitution method ABBA)	1mg - 50 mg	Not applicable	3 µg	In -house
			100 mg		4 µg	
			200 mg		5 µg	
			500 mg		6 µg	
			1 g		7 µg	
			2 g		9 µg	
			5 g		11 µg	
			10 g		14 µg	
			20 g		18 µg	
			50 g		0.03 mg	
			100 g		0.04 mg	
			200 g		0.08 mg	
			500 g		0.20mg	
			1 kg		0.39 mg	
			2 kg		2 mg	
			5 kg		6 mg	
			10 kg		8 mg	
20 kg	15 mg					
02	Mass/ weight/ Electronic Balance	DM/M/TM/03 Based on calibration of weights and balance published by National measurement laboratory, Australia	0 g-20 g	0.01 mg	0.08 mg	In -house / Site
			20 g- 200 g	0.01 mg	0.11 mg	
			200g-500g	0.1 mg	0.27 mg	
			500g-1kg	1.0 mg	2 mg	
			1kg-5kg	10 mg	20 mg	
			10kg-20kg	100 mg	41 mg	
			50kg-150kg	1.0 g	0.5 g	
			150kg-200kg	2.0 g	0.8 g	

SI	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC approximately at 95% confidence level	Location
Temperature						
01	Calibration of Liquid- in-glass thermometers	DM/T/TM-01	-80 °C to 50 °C 50°C to 350 °C 350 °C to 550 °C	0.01 °C	0.05 °C 0.06 °C 0.08 °C	SLSI / In- situ
	Calibration of Dial Thermometers	DM/T/TM-02	-80°C to 550 °C	0.1 °C	0.2 °C	SLSI / In- situ
	Calibration of Digital thermometers with a sensor	DM/T/TM-03	-80 °C to 50 °C 50 °C to 350 °C 350°C to 500 °C 500°C to 1000 °C 1000 °C to 1200 °C	0.01 °C 0.1 °C	0.05 °C 0.06 °C 0.08 °C 0.8 °C 1.8 °C	SLSI / In- situ
	Evaluation of Performance of Autoclaves	DM/T/TM-04	50°C to 150 °C	0.1 °C	0.6 °C	SLSI / In- situ
	Evaluation of Performance of furnaces	DM/T/TM-05	200°C to 1000°C	1 °C	1 °C	SLSI / In- situ
	Evaluation of Performance of liquid baths	DM/T/TM-06	-30 °C to 200 °C	0.01 °C	0.05 °C	SLSI/ In- situ
	Evaluation of Performance of ovens	DM/T/TM-07	50 °C to 200 °C	0.1 °C	0.8 °C	SLSI / In- situ
	Evaluation of Performance of Incubators	DM/T/TM-08	0 °C to 60 °C	0.1 °C	0.6 °C	SLSI / In-situ
	Evaluation of Performance of Cold rooms	DM/T/TM-09	-80 °C to 20 °C	0.1 °C	0.6 °C	Site
	Calibration Thermocouples	DM/T/TM-10	0 °C to 960°C 960 °C to 1000 °C 1000°C to 1200°C	0.1 °C	0.5 °C 0.9 °C 1.8 °C	SLSI
	Calibration of PRT's by comparison method	DM/T/TM-11	-80 °C to 0 °C 0 °C to 660°C	0.01 °C	0.02 °C 0.03 °C	SLSI
	Temperature Mapping of Temperature controlled enclosures	DM/T/TM/12	-80°C to 30°C (Volume < 20 m ³) -80°C to 30°C (20m ³ <Volume<100m ³)	0.1 °C	0.6 °C 0.7 °C	SLSI / In-situ

Sl	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	CMC approximately as 95% confidence level	Location
Pressure						
01	Calibration of compound gauges	DM/P/TM/01	-900mbar – 20 mbar	0.01 bar	0.04 bar	SLSI / In-situ
02	Calibration of air pressure gauges	DM/P/TM/01	0 bar –40bar	0.01 bar	0.04 bar	SLSI / In-situ
03	Calibration of hydraulic pressure gauges	DM/P/TM/01	0 bar - 600 bar	0.02 bar	0.06 bar	SLSI / In-situ
Length						
01	Calibration of Digital External Micrometer	DM/L/TM/01	0mm-25mm	0.001 mm	± 0.001 mm	SLSI
02	Calibration of Mechanical External Micrometer	DM/L/TM/01	0 mm-25mm	0.001 mm	± 0.002 mm	SLSI
03	Calibration of Digital Calipers	DM/L/TM/02	0 mm - 150 mm	0.01 mm	± 0.01 mm	SLSI / In-situ
04	Vernier Caliper	DM/L/TM/02	0 mm - 150 mm	0.01 mm	± 0.02 mm	SLSI / In-situ

Deputy Director (Accreditation)

Sri Lanka Accreditation Board for Conformity Assessment

Colombo , Sri lanka