

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



Valid from 16 January 2020
To 15 January 2023
Issued on 16 January 2020



ISO/ IEC 17025
CL 002-01

Schedule of Accreditation

Accreditation Scheme for 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 on Mass, Length, volume, Pressure, Force and Thermal calibration as per the calibration methods appearing in this schedule.

The laboratory is accredited for the following tests as per given in the page 02 of 04, page 03 of 04 and Page 04 of 04.

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability (CMC) values	Location
Mass						
01	Mass/Weight/Weights (Class F1 & below class F1)	Mass/Direct Comparison	DM/M/TM/02 based on OIML R-111:2004 (Double substitution method ABBA)	1 mg - 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	3 µg 4 µg 5 µg 6 µg 7 µg 9 µg 11 µg 14 µg 18 µg 22 µg 36 µg 68 mg 0.02 mg 0.39 mg 2 mg 6 mg 8 mg 15 mg	In house
	Mass/ Weight/ Electronic Balance	Calibration of mass	Calibration of Electronic Balances DM/M/TM/03 Based on Calibration of weights and balance published by National Measurement Laboratory, Australia.	0 g – 20 g 20 g – 200 g 200 g – 500 g 500 g - 1 kg 1 kg – 5 kg 10 kg – 20 kg 50 kg – 150 kg 150 kg – 200 kg	0.08 mg 0.11 mg 0.27 mg 2 mg 20 mg 41 mg 0.5 g 0.8 g	In house / site
Pressure						
02	Calibration of compound gauges	Gauge Pressure / Direct Comparison	DM/P/TM/01 (Based on DKD-R6-1:2014)	-900 mbar / 20 mbar	0.02 bar	In house /site
	Calibration of air pressure gauges		DM/P/TM/01 (Based on DKD-R6-1:2014)	0 bar / 40 bar	0.02 bar	In house /site
	Calibration of hydraulic pressure gauges		DM/P/TM/01 (Based on DKD-R6-1:2014)	0 bar / 600 bar	0.06 bar	In house /site
	Calibration of hydraulic pressure gauges by using pressure balance		DM/P/TM/02 (Based on DKD-R6-1:2014)	0 bar / 600 bar	0.04 bar	In house

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability (CMC) values	Location
Force						
03	Calibration of force - proving instruments used for the verification of uni axial testing machines	Static Force /Direct Comparison	ISO 376: 2011	0.3 kN / 2000 kN	2.0 x 10 ⁻¹ %	In house
	Verification & calibration of force measuring system		ISO7500-1:2018	20 kN / 2000 kN Compression 20 N / 50 kN Tension		
Length						
05	Calibration of digital external micrometer	Length/Direct Comparison	DM/L/TM/01	0 mm / 25 mm	0.001 mm	In house
	Calibration of mechanical external micrometer		DM/L/TM/01	0 mm / 25 mm	0.002 mm	
	Calibration of digital caliper		DM/L/TM/02	0 mm / 150 mm	0.01 mm	
	Calibration of Vernier caliper		DM/L/TM/02	0 mm / 150 mm	0.04 mm	
Volume						
06	Calibration of Volumetric glass ware by gravimetric method One-mark pipette Graduated pipette Burette Volumetric flask Graduated measuring cylinder	Volume / Gravimetric Method	DM/V/TM/01	5 ml 25 ml 100 ml 200 ml 500 ml 1000 ml 2000 ml	0.009 ml 0.010 ml 0.010 ml 0.02 ml 0.08 ml 0.09 ml 0.13 ml	In house

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability (CMC) values	Location
Temperature						
04	Calibration of Liquid- in-glass thermometers	Temperature / Direct Comparison	DM/T/TM/01	-80 °C / -36 °C -36 °C/199 °C 199 °C / 419 °C 419 °C /550 °C	0.04 °C 0.05 °C 0.07 °C 0.08 °C	In house / site
	Calibration of Dial Thermometers		DM/T/TM/02	-80 °C / 550 °C	0.2 °C	In house / site
	Calibration of Digital thermometers with sensors		DM/T/TM/03	-80 °C / -37 °C -37 °C / 199 °C 199 °C / 419 °C 419 °C /1000 °C 1000 °C/1200 °C	0.04 °C 0.05 °C 0.08 °C 0.7 °C 1.8 °C	In house / site
	Evaluation of Performance of Autoclaves		DM/T/TM/04	50 °C / 150 °C	0.6 °C	In house / site
	Evaluation of Performance of furnaces		DM/T/TM/05	200 °C /1000 °C	1 °C	In house / site
	Evaluation of Performance of liquid baths	Performance verification/ Temperature	DM/T/TM/06	-30 °C / 200 °C	0.05 °C	In house / site
	Evaluation of Performance of ovens	Temperature / Direct Comparison	DM/T/TM/07	50 °C /200 °C	0.8 °C	In house / site
	Evaluation of Performance of Incubators		DM/T/TM/08	0 °C /60 °C	0.6 °C	In house / site
	Evaluation of Performance of Cold rooms		DM/T/TM/09	-80 °C /20 °C	0.6 °C	site
	Calibration of Thermocouples		DM/T/TM/10	0 °C/ 960°C 960 °C/ 1000°C 1000 °C/ 1200°C	0.5 °C 0.9 °C 1.8 °C	In house
	Calibration of PRT,s by comparison method		DM/T/TM/11	-80 °C /400 °C 400 °C / 660°C	0.02 °C 0.03 °C	In house
	Temperature mapping of temperature-controlled enclosures		DM/T/TM/12	-80 °C / -30 °C (volume ≤ 20 m ³) -80 °C / -30 °C (20 m ³ ≤volume ≤ 100 m ³)	0.6 °C 0.7 °C	Site
	Calibration of Metal block bath		DM/T/TM/13 (Without Axial)	35 °C / 250 °C	0.06 °C	In house
DM/T/TM/13 (With Axial)		35 °C / 250 °C	0.6 °C	In house		