

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



Valid from 16 January 2023
to 15 January 2026
Issued on 20 March 2023



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

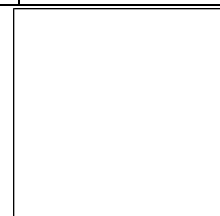
Metrology Division
Sri Lanka Standards Institution
No. 17, Victoria Place
Elvitigala Mawatha
Colombo 08.

Scope of Accreditation: Performing Mechanical calibration on Mass, Length, volume, Pressure, Force, Torque and Thermal calibration as per the calibration methods appearing in this schedule.

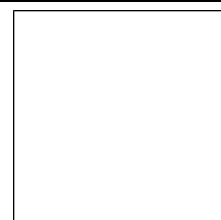
The Laboratory is accredited for the following tests appear on page 02 of 06, page 03 of 06, page 04 of 06, page 05 of 06 and page 06 of 06;



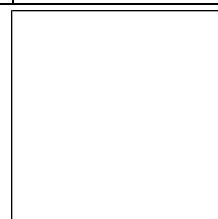
SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
1. Mass						
1.1	Mass/Weight/Weights (Class F1 & below class F1)	Direct comparison	DM/M/TM/02 (Rev 0; Issue No.02) based on OIML R-111:2004 (Double substitution method ABBA)	1 mg - 50 mg	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	22 µg	
				100 g	36 µg	
				200 g	68 mg	
				500 g	0.20 mg	
				1 kg	0.39 mg	
				2 kg	2 mg	
5 kg	6 mg					
10 kg	8 mg					
20 kg	15 mg					
1.2	Mass/ Weight/ Electronic Balance	Calibration of electronic balance	Calibration of Electronic Balances DM/M/TM/03 (Rev0: Issue No.02) Based on Calibration of weights and balance published by National Measurement Laboratory, Australia.	0 g – 20 g	0.08 mg	In house / site
				20 g – 200 g	0.11 mg	
				200 g – 500 g	0.27 mg	
				500 g - 1 kg	2 mg	
				1 kg – 5 kg	20 mg	
				10 kg – 20 kg	41 mg	
				50 kg – 150 kg	0.5 g	
150 kg –200 kg	0.8 g					
2. Pressure						
2.1	Calibration of compound gauges	Gauge Pressure /Direct comparison	DM/P/TM/01 (Rev0; Issue No.02) (Based on DKD-R6-1:2014)	-900 mbar / 20 mbar	0.02bar	In house/ Site
2.2	Calibration of air pressure gauges		DM/P/TM/01 (Rev0; Issue No.02) (Based on DKD-R6-1:2014)	0 bar / 45 bar	0.02bar	
2.3	Calibration of hydraulic pressure gauges		DM/P/TM/01 (Rev0; Issue No.02) (Based on DKD-R6-1:2014)	0 bar / 600 bar	0.06 bar	
2.4	Calibration of hydraulic pressure gauges by using pressure balance		Gauge Pressure /Direct comparison	DM/P/TM/02 (Rev0; Issue No.01) (Based on DKD-R6-1:2014)	0 bar / 600 bar	



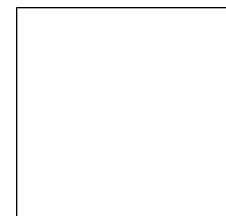
SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
3. Force						
3.1	Calibration of force - proving instruments used for the verification of uni axial testing machines	Static force/ direct compression	ISO 376: 2011	0.3 kN / 2000 kN (Compression)	2.0 x 10 ⁻¹ %	In house
				0.3 kN / 100 kN (Tension)		
3.2	Verification & calibration of force measuring system	Static force/ direct compression	ISO7500-1:2018	20 kN/ 2000 kN (Compression)	2.2 x 10 ⁻¹ %	In house / Site
				20 N / 50 kN (Tension)		
4.Torque						
4.1	Calibration of hand Torque tools	direct compression	DM/Q/TM/01 (Rev0; Issue No.01) Based on ISO 6789-1:2017	7.5 N.m to 30 N.m	0.5 N.m.	In house
				30 N.m to 150 N.m	4 N.m	
				150 N.m to 1500 N.m	6 N.m	
5. Length						
5.1	Calibration of digital external micrometer	Length/Direct comparison	DM/L/TM/01 (Rev0; Issue No.02)	0 mm / 25 mm	0.001 mm	In house
5.2	Calibration of mechanical external micrometer		DM/L/TM/01 (Rev0; Issue No.02)	0 mm / 25 mm	0.002 mm	
5.3	Calibration of digital caliper		DM/L/TM/02 (Rev1; Issue No.02)	0 mm < R ≤ 200 mm	0.01 mm	
				200 mm < R ≤ 600 mm	0.02 mm	
5.4	Calibration of vernier caliper		DM/L/TM/02 (Rev1; Issue No.02)	0 mm < R ≤ 600 mm	0.04 mm	
5.5	Calibration of Test Sieve of metal wire cloth		DM/L/TM/03 (Rev0; Issue No.01)	38 μm ≤ R < 400 μm	3.5 μm	
				400 μm ≤ R ≤ 2000 μm	12 μm	
5.6	Calibration of Test Sieve of perforated metal plate	DM/L/TM/04 (Rev0; Issue No.01)	4 mm < R ≤ 125 mm	30 μm		
5.7	Calibration of Dial / Digital indicator	DM/L/TM/06 (Rev0; Issue No.01)	0 mm < R ≤ 25 mm	3 μm		



SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
6. Volume						
6.1	Graduated Pipette	Glassware/Plastic Gravimetric Method	DM/V/TM/01 (Rev1; Issue No.01)	0-5 ml	0.009 ml	In house
				5 ml < V ≤ 25 ml	0.010 ml	
	One-mark Pipette		DM/V/TM/01 (Rev1; Issue No.01)	0-5 ml	0.009 ml	
				5 ml < V ≤ 25 ml	0.010 ml	
				25 ml < V ≤ 100 ml	0.010 ml	
100 ml < V ≤ 200 ml	0.02 ml					
6.2	Burette	Glassware/Plastic Gravimetric Method	DM/V/TM/01 (Rev1; Issue No.01)	0-10 ml	0.010 ml	In house
				10ml < V ≤ 25 ml	0.010 ml	
				25 ml < V ≤ 50 ml	0.010 ml	
				50 ml < V ≤ 100 ml	0.010 ml	
6.3	Volumetric flask	Glass/Plastic Gravimetric method	DM/V/TM/01 (Rev1; Issue No.01)	5 ml	0.009 ml	In house
				10 ml	0.010 ml	
				25 ml	0.010 ml	
				50 ml	0.010 ml	
				100 ml	0.010 ml	
				200 ml	0.02 ml	
				500 ml	0.08 ml	
				1000 ml	0.09 ml	
2000 ml	0.13 ml					
6.4	Graduated Measuring Cylinder	Glassware/Plastic Gravimetric Method	DM/V/TM/01 (Rev1; Issue No.01)	0-10 ml	0.010 ml	In house
				10ml < V ≤ 25 ml	0.010 ml	
				25 ml < V ≤ 150 ml	0.010 ml	
				150 ml < V ≤ 300 ml	0.020 ml	
				300ml < V ≤ 500 ml	0.08 ml	
				500 ml < V ≤ 1000 ml	0.09 ml	
6.5	Piston Operated Volumetric Apparatus a) Signal channel piston operated pipette (Fixed volume) b) Signal channel piston operated pipette (Variable volume) c) Multi-channel piston operated pipette	Gravimetric Method	DM/V/TM/02 (Rev0; Issue No.01)	V=10 µl	0.20 µl	In house
				V=20 µl	0.22 µl	
				V=50 µl	0.24 µl	
				V=100 µl	0.37 µl	
				V=200µl	0.46 µl	
				V=500 µl	1.1 µl	
				V=1000 µl	2.7 µl	



SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
7. Temperature						
7.1	Calibration of liquid- in-glass thermometers		DM/T/TM/01 (Rev0; Issue No.02)	(-80 °C) - (-37 °C)	0.04 °C	In house / Site
				(-37 °C) – 199 °C	0.05 °C	
				199 °C – 419 °C	0.07 °C	
				419 °C – 550 °C	0.08 °C	
7.2	Calibration of dial Thermometers	Temperature/ Direct comparison	DM/T/TM/02 (Rev0; Issue No.02)	(-80 °C) – 550 °C	0.2 °C	
7.3	Calibration of digital thermometers with sensors		DM/T/TM/03 (Rev0; Issue No.02)	(-80 °C) - (-37 °C)	0.04 °C	
				(-37 °C) - 199 °C	0.05 °C	
				199 °C - 419 °C	0.08 °C	
				419 °C – 1000 °C	0.7 °C	
1000 °C – 1200 °C	1.8 °C					
7.4	Evaluation of performance of autoclaves	Temperature/ performance evaluation	DM/T/TM/04 (Rev0; Issue No.02)	50 °C - 150 °C	0.6 °C	
7.5	Evaluation of performance of furnaces	Temperature/ performance evaluation	DM/T/TM/05 (Rev0; Issue No.02)	200 °C - 1000 °C	1 °C	
7.6	Evaluation of performance of liquid baths	Performance verification	DM/T/TM/06 ((Rev0; Issue No.02)	(-30 °C) - 200 °C	0.05 °C	
7.7	Evaluation of performance of ovens	Temperature/ performance evaluation	DM/T/TM/07 (Rev0; Issue No.02)	30 °C – 200 °C	0.8 °C	
7.8	Evaluation of performance of Incubators	Temperature/ performance evaluation	DM/T/TM/08 (Rev0; Issue No.02)	0 °C - 60 °C	0.6 °C	



SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
7.9	Evaluation of performance of cold rooms	Temperature/performance evaluation	DM/T/TM/09 (Rev0; Issue No.02)	(-80 °C) - 20 °C	0.6 °C	Site
7.10	Calibration of thermocouples	Temperature/Direct comparison	DM/T/TM/10 (Rev0; Issue No.02)	0 °C - 960°C	0.5 °C	In house
				960 °C - 1000°C	0.9 °C	
				1000 °C - 1200°C	1.8 °C	
7.11	Calibration of PRTs by comparison method	Temperature/Direct comparison	DM/T/TM/11 (Rev0; Issue No.02)	(-80 °C) - 300 °C	0.02 °C	
				300 °C - 660°C	0.03 °C	
7.12	Calibration of metal block bath	Temperature/Direct comparison	DM/T/TM/13 (Rev0; Issue No.02) (<i>Without axial</i>)	35 °C - 250 °C	0.06 °C	
			DM/T/TM/13 (Rev0; Issue No.02) (<i>With axial</i>)	35 °C - 250 °C	0.6 °C	

Director/CEO
Sri Lanka Accreditation Board for Conformity Assessment

