

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
<b>1. Mass</b>						
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 µg	
				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					
<b>2. Pressure</b>						
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	0.06 bar	



SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
<b>3. Force</b>						
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 <sup>-1</sup> %	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 <sup>-1</sup> %	In house / Site
				20 N / 50 kN (Tension)		
<b>4. Torque</b>						
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	
<b>5. Length</b>						
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		



C. A. Ghu

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC Values	Location
<b>6. Volume</b>						
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	
				1000 ml < V ≤ 2000 ml	0.13 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
<b>7. Temperature</b>						
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



## List of Recommended Authorized Signatories

<b>SI No</b>	<b>Name</b>	<b>Authorized for which specific area of testing</b>
01	Ms. S Udakara	Mass, Force, Length, Pressure, Torque, Volume & Temperature
02	Mr. P P Wanigasinghe	Mass, Force, Volume & Temperature
03	Ms. W A S Y Weerasinghe	Mass, Force, Length & Temperature
04	Mr. G H Asoka	Mass, Force, Pressure, Torque & Temperature
05	Ms. A J G M Bogahawatta	Temperature only
06	Ms. M S Liyanage	Mass & Volume

c. n. Gm



අනුකූලතා තක්සේරු පිළිබඳ ශ්‍රී ලංකා ප්‍රතීතන මණ්ඩලය  
ஒத்தியல்பு மதிப்பீட்டிற்கான இலங்கை தராதர அங்கீகார சபை  
Sri Lanka Accreditation Board for Conformity Assessment

නො. 104/ඒ, කිතුල්වත්ත පාර,  
බොරැල්ල, 00800, ශ්‍රී ලංකාව.

இல 104/ஏ, கிதுல்வத்த வீதி  
பொரெல்ல, 00800, இலங்கை.

No. 104/A, Kithulwatta Rd,  
Borella, 00800, Sri Lanka.

Our Ref: CL-CF-002-01

2023.03.21

Ms. S. Udakara,  
Director,  
Metrology Division  
Sri Lanka Standard Institute  
Elvitigala Mw  
Colombo 08

Dear Madam,

**GRANT OF ACCREDITATION- METROLOGY DIVISION, SRI LANKA STANDARDS  
INSTITUTION**

This refers to the assessment carried out by the SLAB in connection with the Accreditation of the Metrology Division of Sri Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08.

We are pleased to inform you that, upon successful completion of the Assessment and necessary follow up actions, the SLAB in accordance with the procedure for Renew of Accreditation has decided to Grant Accreditation to the Metrology Division of Sri Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08. based on ISO/IEC 17025:2017. Please find enclosed the Certificates of Accreditation and the Schedules conveying the Scope of Accreditation.

This accreditation demonstrates technical competence of operating a quality management system under a defined scope as given in the schedule of accreditation and is valid from 2023-01-16 to 2026-01-15.

The list of recommended authorized signatories by SLAB is attached herewith. The reports or certificates with or without statements of interpretation or opinion and with or without SLAB symbol shall be issued only by the signatories authorized by SLAB. In contrary to the above, shall be informed to SLAB.

Accreditation Committee met on 2023-03-17 recommended that Quality Assurance activities to be align with the SLAB policy and complete External Quality assurance Activities Programme within three year cycle.

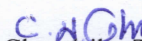
Your laboratory is responsible for the results of testings performed as well as interpretations submitted, where relevant and applicable and for the selection and application of test methods within the Scope of Accreditation granted.

The SLAB conducts annual surveillances before the end of first year and second year and a reassessment after every third year in order to verify that the requirements for accreditation given in Rules and Procedures and Terms & Conditions for maintaining accreditation are fulfilled.

We take this opportunity to thank you for the interest you have taken to obtain accreditation and seek your extended co-operation for successful accreditation programme.

Thank you.

Yours faithfully,

  
Chandrika Thilakaratne  
Director/CEO  
Sri Lanka Accreditation Board for Conformity Assessment

කාර්යාලය / அலுவலகம் / Office

අධ්‍යක්ෂ / பணிப்பாளர் / Director

සභාපති / தலைவர் / Chairman

දුරකථන / தொலைபேசி / Telephone

- 94 11 2 689 157, 94 11 2 689 158

94 112 689 124

94 112 678 780

ෆැක්ස් / பக்ஸ் / Fax

- 94 11 2 689 161

94 112 689 161

94 112 689 161

විද්‍යුත් තැපෑල / மின்னஞ்சல் / E-mail

- slabmail@slab.lk

director@slab.lk

chairmanslab@gmail.com

වෙබ් අඩවිය / இணையத்தளம் / Website

- www.slab.lk