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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
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	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
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	0.02 bar	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	0.02 bar	In house /site
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	In house /site
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	0.04 bar	In house
Force						
3.1	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 (<i>Compression</i>)	2.0×10^{-1} %	In house
				0.3 kN / 100 kN (<i>Tension</i>)	2.0×10^{-1} %	
3.2	Verification & calibration of force measuring system	Static force/ Direct comparison	ISO7500-1 : 2018	20 kN / 2000 kN (<i>Compression</i>)	2.2×10^{-1} %	In house / Site
				20 N / 50 kN (<i>Tension</i>)		
Torque						
4.1	Calibration of hand Torque tools	Direct comparison	DM/Q/TM/01 (rev0) issue no.01 (Based on ISO 6789-1:2017)	$7.5 \text{ N.m} \leq R < 30 \text{ N.m}$	0.5 N.m	In house
				$30 \text{ N.m} \leq R < 150 \text{ N.m}$	4 N.m	
				$150 \text{ N.m} \leq R < 1500 \text{ N.m}$	6 N.m	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
Temperature						
5.1	Calibration of liquid- in-glass thermometers	Temperature/ Direct comparison	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	
5.2	Calibration of dial Thermometers	Temperature/ Direct comparison	DM/T/TM/02 (rev0) issue no.02	-80 °C / 550 °C	0.2 °C	In house / site
5.3	Calibration of digital thermometers with sensors	Temperature/ Direct comparison	DM/T/TM/03 (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	0.08 °C	
				419 °C / 1000 °C	0.7 °C	
				1000 °C / 1200 °C	1.8 °C	
5.4	Evaluation of performance of autoclaves	Temperature/ performance evaluation	DM/T/TM/04 (rev0) issue no.02	50 °C / 150 °C	0.6 °C	In house / site
5.5	Evaluation of performance of furnaces	Temperature/ performance evaluation	DM/T/TM/05 (rev0) issue no.02	200 °C / 1000 °C	1 °C	In house / site
5.6	Evaluation of performance of liquid baths	Performance verification	DM/T/TM/06 (rev0) issue no.02	-30 °C / 200 °C	0.05 °C	In house / site
5.7	Evaluation of performance of ovens	Temperature/ performance evaluation	DM/T/TM/07 (rev0) issue no.02	30 °C / 200 °C	0.8 °C	In house / site
5.8	Evaluation of performance of Incubators	Temperature/ performance evaluation	DM/T/TM/08 (rev0) issue no.02	0 °C / 60 °C	0.6 °C	In house / site
5.9	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
5.10	Calibration of thermocouples	Temperature/Dir ect 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	
5.11	Calibration of PRTs by comparison method	Temperature/Dir ect comparison	DM/T/TM/11 (rev0) issue no.02	-80 °C /300 °C	0.02 °C	In house
				300 °C / 660°C	0.03 °C	
5.12	Temperature mapping of temperature-controlled enclosures	Temperature/ performance evaluation	DM/T/TM/12 (rev3) issue no.02	-20 °C / +35 °C	0.2 °C	Site

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
Length						
6.1	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
6.2	Calibration of mechanical external micrometer	Length/Direct comparison	DM/L/TM/01 (rev0) issue no.02	0 mm / 25 mm	0.002 mm	In house
6.3	Calibration of digital caliper	Length/Direct comparison	DM/L/TM/02 (rev1) issue no.02	0 mm < R ≤ 200 mm	0.01 mm	In house
				200 mm < R ≤ 600 mm	0.02 mm	
6.4	Calibration of vernier caliper	Length/Direct comparison	DM/L/TM/02 (rev1) issue no.02	0 mm < R ≤ 600 mm	0.04 mm	In house
6.5	Calibration of Test Sieve of metal wire cloth	Length/Direct comparison	DM/L/TM/03 (rev0) issue no.01	38 μm ≤ R < 400 μm	3.5 μm	In house
				400 μm ≤ R ≤ 2000 μm	12 μm	
6.6	Calibration of Test Sieve of perforated metal plate	Length/Direct comparison	DM/L/TM/04 (rev0) issue no.01	4 mm ≤ R ≤ 125 mm	30 μm	In house
6.7	Calibration of Dial indicator (Digital/Analog)	Length/Direct comparison	DM/L/TM/05 (rev0) issue no.01	0 mm < R ≤ 30 mm	2 μm	In house
5. Volume						
7.1	Graduated Pipette	Glassware/Plastic Gravimetric Method	DM/V/TM/01 (rev3) issue no.01	0-5 ml	0.013 ml	In house
				10 ml	0.010 ml	
	One-mark Pipette			25 ml	0.014 ml	In house
				50 ml	0.028 ml	
				100 ml	0.047 ml	
				200 ml	0.05 ml	
7.2	Burette	Glassware/ Plastic Gravimetric Method	DM/V/TM/01 (rev3) issue no.01	10 ml	0.013 ml	In house
				25 ml	0.014 ml	
				50 ml	0.028 ml	
				100 ml	0.047 ml	

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7.3	Volumetric flask/Measuring Jug	Volume/ Plastic Gravimetric method	DM/V/TM/01 (rev3) issue no.01	5 ml	0.013 ml	In house
				10 ml	0.013 ml	
				25 ml	0.014 ml	
				50 ml	0.028 ml	
				100 ml	0.047 ml	
				200 ml	0.05 ml	
				500 ml	0.13 ml	
				1000 ml	0.24 ml	
				2000 ml	0.31 ml	
7.4	Graduated Measuring Cylinder	Glassware/ Plastic Gravimetric Method	DM/V/TM/01 (rev3) issue no.01	0-10 ml	0.013 ml	In house
				25 ml	0.014 ml	
				50 ml	0.028 ml	
				100 ml	0.047 ml	
				200 ml	0.05 ml	
				500 ml	0.13 ml	
				1000 ml	0.24 ml	
				2000 ml	0.31 ml	
7.5	a) Signal channel piston operated pipette (<i>fixed volume</i>) a) Signal channel piston operated pipette (<i>variable volume</i>) a) Multi channel piston operated pipette	Gravimetric Method	DM/V/TM/02 (rev1) issue no.01	V=10 µl	0.05 µl	In house
				10 µl	0.054 µl	
				20 µl	0.50 µl	
				50 µl	0.52 µl	
				100 µl	0.55 µl	
				200 µl	0.66 µl	
				500 µl	1.3 µl	
				1000 µl	2.4 µl	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location
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Director/CEO
Sri Lanka Accreditation Board for Conformity Assessment