



Valid from 14 December 2024
to 13 December 2028
Issued on 19 February 2025

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



ISO/ IEC 17025
CL 013-01

Schedule of Accreditation

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

Accreditation Number: CL 013-01

**SriLankan Engineering Calibration Laboratory,
Aircraft Engineering Department
SriLankan Airlines Ltd
Airline Centre
Bandaranaike International Airport
Katunayake.**

Scope of Accreditation: Performing Mass and Related Quantities, Length, Thermal & Electrical Calibrations as per the test methods appearing in the schedule.

The Laboratory is accredited for the following tests appear from page 02 to 08;

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure	Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability (Expanded uncertainty at a coverage probability of 95 %; coverage factor of k = 2.)	Location (Site/ In house)
E.1.1	DC Volt Measuring Instruments	DC Voltage / Direct comparison	CAL / TMD / 01 ; Issue No 03- Rev 01	0 V to 1020 V	0.001 V	0.0016 % + 1.2 μV	In house
	AC Volt Measuring Instruments	AC Voltage / Direct Comparison		1 mV to 330 mV	0.001 mV	0.072 % @ 10 Hz - 100 kHz 0.097 % @ > 100 kHz - 450 kHz	In house
				>330 mV to 3.3 V	0.00001 V	0.091 % @ 10 Hz - 100 kHz 0.097 % @ > 100 kHz - 450 kHz	
				>3.3 V to 33 V	0.00001 V	0.028 % @ 10 Hz - 50 kHz 0.037 % @ > 50 kHz - 90 kHz	
				>33 V to 330 V	0.001 V	0.069 % @ 45 Hz - 50 kHz 0.084 % @ > 50 kHz - 100 kHz	
				>330 V to 1020 V	0.01 V	0.064 % @ 45 Hz - 10 kHz	
E.1.2	Digital Current measuring instruments	DC Current / Direct comparison	CAL / TMD / 01 ; Issue No 03- Rev 01	0 μA to 330 μA	0.001 μA	0.014 % + 0.0032 μA	In house
	Digital Current measuring instruments	AC Current / Direct comparison		>330 μA to 3 A	0.00001 A	0.012 %	
				>3 A to 20 A	0.0001 A	0.070%	
				>33 μA to 330 μA	0.001 μA	0.27 % @ 10 Hz – 30 kHz	In house
				>330 μA to 330 mA	0.000001 A	0.053 % @ 10 Hz - 45 Hz 0.064 % @ ≥45 Hz - 5 kHz 0.20 % @ > 5 kHz - 10 kHz 0.81 % @ > 10 kHz - 30 kHz	
				>330 mA to 3 A	0.00001 A	0.059 % @ 10 Hz - 45 Hz 0.032 % @ ≥ 45 Hz - 1 kHz 0.27 % @ > 1 kHz - 5 kHz 0.47 % @ > 5 kHz - 10 kHz	
	>3 A to 20 A	0.0001 A		0.097 % @ 45 Hz - 1 kHz 0.50 % @ > 1 kHz - 5 kHz			
	E.1.3	Digital Resistance measuring instruments		Resistance (2 - wire) / Direct comparison	>0 Ω to 11 Ω	0.0001 Ω	0.024 %
>11 Ω to 330 Ω			0.0001 Ω		0.0017 %		
>330 Ω to 1.1 MΩ			0.01 Ω		0.0022 %		
>1.1 MΩ to 3.3 MΩ			1 Ω		0.0040 %		
>3.3 MΩ to 11 MΩ			10 Ω		0.0064 %		
>11 MΩ to 33 MΩ			10 Ω		0.015 %		
>33 MΩ to 110 MΩ			100 Ω		0.064 %		
>110 MΩ to 330 MΩ			1000 Ω		0.051 %		
>330 MΩ to 1100 MΩ			10000 Ω		0.17 %		

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E.2.1	Electrical Generating Instruments	DC Voltage / DC Voltage source	CAL / TMD / 01 ; Issue No 03- Rev 01	0 mV to 100 mV	0.0001 mV	5 ppm + 0.45 μV	In house
				>100 mV to 1 V	0.000001 V	2 ppm + 1.8 μV	
				>1 V to 10 V	0.00001 V	1 ppm + 33 μV	
				>10 V to 100 V	0.0001 V	5 ppm + 0.13 mV	
				>100 V to 1000 V	0.001 V	10 ppm + 1.1 mV	
				0 mV to 50 mV	0.001 mV	22 ppm + 0.007 mV	Site
				>50 mV to 500 mV	0.01 mV	6 ppm + 0.024 mV	
				>500 mV to 3 V	0.1 mV	14 ppm + 0.11 mV	
				>3 V to 5 V	0.0001 V	6 ppm + 0.17 mV	
				>5 V to 50 V	0.001 V	24 ppm + 1.6 mV	
				>50 V to 500 V	0.01 V	24 ppm + 16 mV	
				>500 V to 1000 V	0.1 V	110 ppm + 100 mV	
		AC Voltage / AC Voltage source		>1 mV to 10 mV	0.01 mV	0.08 % @ 40 Hz - 1 kHz 0.12 % @ >1 kHz - 20 kHz 0.95 % @ >20 kHz - 50 kHz 1.3 % @ >50 kHz - 100 kHz 11 % @ >100 kHz - 300 kHz	In house
				>10 mV to 100 mV	0.01 mV	0.023 % @ 40 Hz - 1 kHz 0.045 % @ >1 kHz - 20 kHz 0.17 % @ >20 kHz - 50 kHz 0.22 % @ >50 kHz - 100 kHz 0.85 % @ >100 kHz - 300 kHz	
				>100 mV to 1 V	0.00001 V	0.023 % @ 40 Hz - 1 kHz 0.048 % @ >1 kHz - 20 kHz 0.075 % @ >20 kHz - 50 kHz 0.2 % @ 50 >kHz - 100 kHz 0.8 % @ 100 >kHz - 300 kHz 2.4 % @ 300 kHz - 500 kHz	
				>1 V to 10 V	0.0001 V	0.023 % @ 40 Hz - 1 kHz 0.04 % @ >1 kHz - 10 kHz 0.042 % @ >10 kHz - 20 kHz 0.077 % @ >20 kHz - 50 kHz 0.24 % @ >50 kHz - 100 kHz 0.86 % @ >100 kHz - 300 kHz 2.5 % @ >300 kHz - 500 kHz 2.5 % @ >500 kHz - 1 MHz	

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure	Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability (Expanded uncertainty at a coverage probability of 95 %; coverage factor of k = 2.)	Location (Site/ In house)
E.2.1	Electrical Generating Instruments	AC Voltage / AC Voltage source	CAL / TMD / 01 ; Issue No 03- Rev 01	>10 V to 100 V	0.001 V	0.053 % @ 45 Hz - 1 kHz 0.058 % @ 1 kHz - 20 kHz 0.088 % @ 20 kHz - 50 kHz 0.29 % @ 50 kHz - 100 kHz	
				100 V to 700 V	0.01 V	0.11 % @ 45 Hz - 1 kHz 0.3 % @ 1 kHz - 10 kHz	
				>700 V to 1000 V	0.01 V	0.3 % @ 45 Hz - 10 kHz	
				>2.5 mV to 50 mV	0.001 mV	0.3 % @ 45 Hz - 1 kHz 4 % @ 1 kHz - 20 kHz	In house
				>50 mV to 500 mV	0.01 mV	0.26 % @ 45 Hz - 1 kHz 4 % @ 1 kHz - 20 kHz	
				>500 mV to 3 V	0.1 mV	0.5 % @ 45 Hz - 1 kHz 1 % @ 1 kHz - 20 kHz	
				>3 V to 5 V	0.0001 V	0.2 % @ 45 Hz - 1 kHz 0.6 % @ 1 kHz - 20 kHz	
				>5 V to 50 V	0.001 V	0.3 % @ 45 Hz - 1 kHz 0.4 % @ 1 kHz - 20 kHz	
				>50 V to 500 V	0.01 V	0.3 % @ 45 Hz - 1 kHz 0.3 % @ 1 kHz - 10 kHz	
				>500 V to 1000 V	0.1 V	0.3 % @ 45 Hz - 10 kHz	

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure	Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability	Location (Site/ In house)
E.2.2	Electrical Generating Instruments	DC Current / DC Current source	CAL / TMD / 01 ; Issue No 03- Rev 01	0 μ A to 100 μ A >100 μ A to 1 mA >1 mA to 10 mA >10 mA to 100 mA >100 mA to 1 A >1 A to 5 A >5 A to 10 A	0.001 μ A 0.01 μ A 0.0001 mA 0.001 mA 0.00001 A 0.001 A 0.001 A	65 ppm + 0.0016 μ A 54 ppm + 0.011 μ A 55 ppm + 0.11 μ A 81 ppm + 1.1 μ A 230 ppm + 19 μ A 0.1 % + 0.3 mA 0.1 % + 1.2 mA	In house
				0 μ A to 500 μ A >500 μ A to 5 mA >5 mA to 50 mA >50 mA to 400 mA >400 mA to 5 A >5 A to 10 A	0.01 μ A 0.1 μ A 0.001 mA 0.01 mA 0.0001 A 0.001 A	0.012 % + 10 μ A 0.009 % + 10 μ A 0.0041 % + 15 μ A 0.023 % + 60 μ A 0.1 % + 0.3 mA 0.1 % + 1.2 mA	Site
		AC Current / AC Current source		30 μ A to 100 μ A >100 μ A to 1 mA >1 mA to 10 mA >10 mA to 100 mA >100 mA to 1 A >1 A to 5 A >5 A to 10 A	0.01 μ A 0.00001 mA 0.0001 mA 0.001 mA 0.00001 A 0.0001 A 0.001 A	0.16 % @ 45 Hz - 1 kHz 0.12 % @ 45 Hz - 1 kHz 0.11 % @ 45 Hz - 1 kHz 0.11 % @ 45 Hz - 1 kHz 0.22 % @ 45 Hz - 1 kHz 0.77 % @ 45 Hz - 5 kHz 0.84 % @ 45 Hz - 5 kHz	In house
				30 μ A to 500 μ A >500 μ A to 5 mA >5 mA to 50 mA >50 mA to 400 mA >400 mA to 5 A >5 A to 10 A	0.01 μ A 0.1 μ A 0.001 mA 0.01 mA 0.0001 A 0.001 A	0.37 % @ 45 Hz - 10 kHz 0.17 % @ 45 Hz - 10 kHz 0.17 % @ 45 Hz - 10 kHz 1.1 % @ 45 Hz - 10 kHz 0.77 % @ 45 Hz - 5 kHz 0.84 % @ 45 Hz - 5 kHz	Site
E.2.3		Resistance (4 wire) / Resistance source		>0 Ω to 10 Ω >10 Ω to 100 Ω >100 Ω to 1 k Ω >1 k Ω to 10 k Ω >10 k Ω to 100 k Ω >100 k Ω to 1 M Ω >1 M Ω to 10 M Ω	0.0001 Ω 0.0001 Ω 0.000001 k Ω 0.0001 k Ω 0.001 k Ω 0.000001 M Ω 0.0001 M Ω	40 ppm + 0.19 m Ω 40 ppm + 1.8 m Ω 32 ppm + 2 m Ω 32 ppm + 0.02 Ω 32 ppm + 0.18 Ω 44 ppm + 7 Ω 0.014 % + 0.19 k Ω	In house
		Resistance (2 wire) / Resistance source		>1 M Ω to 10 M Ω >10 M Ω to 100 M Ω >100 M Ω to 500 M Ω	0.0001 M Ω 0.0001 M Ω 0.0001 M Ω	0.014 % + 0.19 k Ω 0.033 % + 16 k Ω 1.2 % + 1.5 M Ω	
				>0 Ω to 500 Ω >500 Ω to 5 k Ω >5 k Ω to 50 k Ω >50 k Ω to 500 k Ω >500 k Ω to 5 M Ω >5 M Ω to 32 M Ω >32 M Ω to 500 M Ω	0.01 Ω 0.0001 k Ω 0.001 k Ω 0.01 k Ω 0.001 M Ω 0.01 M Ω 0.1 M Ω	41 ppm + 0.021 Ω 47 ppm + 0.15 Ω 28 ppm + 1.5 Ω 90 ppm + 16 Ω 52 ppm + 1.8 k Ω 36 ppm + 11 k Ω 1.2 % + 1.5 M Ω	Site
E.2.4		Voltage coupled Frequency / Frequency source	CAL / TMD / 01 ; Issue No 03- Rev 01	1 Hz to 10 MHz	0.01 Hz to 0.0001 MHz	0.06 % + 6 mHz	In house

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure	Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability	Location (Site/ In house)
M.1.1	Bourdon tube / Electrical Pressure Gauge (Alcohol/Oil)	Gauge Pressure / Direct comparison	CAL/TMD/02; Issue No 02 -Rev 00	0 MPa to 10 MPa	0.01 kPa	6.6 kPa	In house
				>10 MPa to 70 MPa	0.01 kPa	14 kPa	
	Bourdon tube / Electrical Pressure Gauge (Oil)			>70 MPa to 112 MPa	1 kPa	45 kPa	
M.1.2	Bourdon tube / Electrical Pressure Gauge (Nitrogen/Air)			0 MPa to 1.99 MPa	0.001 kPa	0.51 kPa	
				>1.99 MPa to 2.42 MPa	0.01 kPa	6.6 kPa	
				0 MPa to (-) 0.095 MPa	0.001 kPa	0.078 kPa	
M.2.1	Hand torque tools	Torque / Direct comparison	CAL/TMD/03; Issue No 02 -Rev 00	0.2 N.m to <2 N.m	0.0001 N.m	0.35%	In house
				2 N.m to <10 N.m	0.001 N.m	0.32%	
				10 N.m to < 50 N.m	0.01 N.m	0.32%	
				50 N.m to <250 N.m	0.01 N.m	0.29%	
				250 N.m to < 300 N.m	0.1 N.m	0.34%	
				300 N.m to 1000 N.m	0.1 N.m	0.29%	
M.3.1	Mechanical / Digital External Micrometer	Length / Direct comparison	CAL/TMD/04; Issue No 02 -Rev 01	0 mm to 15.0 mm	0.001 mm	0.0006 mm	In house
				>15.0 mm to 25 mm	0.001 mm	0.0007 mm	
				0 inch to 1 inch	0.0001 inch	0.00004 inch	
M.3.2	Mechanical/ Digital Calipers	Length / Direct comparison	CAL/TMD/05; Issue No 02 -Rev 01	0 mm to 150 mm	0.001 mm	0.0015 mm	In house
				0 inch to 6 inch	0.0005 inch	0.0005 inch	
M.3.3	Dial/ Digital Indicators	Length / Direct comparison	CAL/TMD/06; Issue No 02 -Rev 00	0 inch to 1 inch	0.001 inch	0.00035 inch	In house

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure		Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability	Location (Site/ In house)
T.1.1	Temperature measuring indicators using detachable type thermocouple sensors (type K thermocouples)	Calibration of temperature indicators by electrical simulation	CAL/TMD/07; Issue No 02 - Rev 01	Including thermocouple	-200 °C to <-100 °C -100 °C to <-10 °C -10 °C to 800 °C >800 °C to 1200 °C >1200 °C to 1372 °C	0.01 °C	1.3 °C 0.8 °C 0.7 °C 0.9 °C 1.0 °C	In house /Site
				Excluding thermocouple wire	-200 °C to -100 °C >-100 °C to 1372 °C	0.01 °C	0.4 °C 0.2 °C	In house
					-200 °C to -100 °C >-100 °C to -10 °C >-10 °C to 800 °C >800 °C to 1372 °C		1.2 °C 0.7 °C 0.6 °C 0.8 °C	Site
T.1.2	Temperature measuring indicators using detachable type thermocouple sensors (type T thermocouples)	Calibration of temperature indicators by electrical simulation	CAL/TMD/07; Issue No 02 - Rev 01	Including thermocouple wire	-250 °C to -200 °C >-200 °C to -10 °C >-10 °C to 0 °C >0 °C to 100 °C >100 °C to 300 °C >300 °C to 400 °C	0.01 °C	2.9 °C 1.4 °C 0.9 °C 0.8 °C 0.7 °C 0.6 °C	In house / Site
				Excluding thermocouple wire	-250 °C to -150 °C >-150 °C to 0 °C >0 °C to 400 °C	0.01 °C	0.9 °C 0.3 °C 0.2 °C	In house
					-250 °C to -200 °C >-200 °C to -10 °C >-10 °C to 0 °C >0 °C to 100 °C >100 °C to 400 °C		2.8 °C 1.2 °C 0.7 °C 0.6 °C 0.5 °C	Site
T.1.3	Temperature measuring indicators using detachable type thermocouple sensors (type J thermocouples)	Calibration of temperature indicators by electrical simulation	CAL/TMD/07; Issue No 02 - Rev 01	Including thermocouple	-210 °C to -100 °C >-100 °C to 800 °C >800 °C to 1200 °C	0.01 °C	1.1 °C 0.6 °C 0.7 °C	In house / Site
				Excluding thermocouple wire	-210 °C to -100 °C >-100 °C to 1200 °C	0.01 °C	0.3 °C 0.2 °C	In house
					-210 °C to -100 °C >-100 °C to 800 °C >800 °C to 1200 °C	0.01 °C	1.1 °C 0.5 °C 0.6 °C	Site

SI No	Type of Instrument / Gauge	Calibration performed/ Measured Quantity	Calibration methods / Measurement procedure		Range of calibration	Readability/ Resolution as applicable	Calibration Measurement Capability	Location (Site/ In house)
T.1.4	Temperature measuring indicators using detachable type thermocouple sensors (type E thermocouples)	Calibration of temperature indicators by electrical simulation	CAL/TMD/07; Issue No 02 - Rev 01	Including thermocouple	-250 °C to -200 °C >-200 °C to -100 ° C >-100 °C to -10 °C >-10 °C to 100 °C >100 °C to 600 °C >600 °C to 1000 °	0.01 °C	2.3 °C 1.1 °C 0.9 °C 0.8 °C 0.7 °C 0.8 °C	In house/ Site
				Excluding thermocouple wire	-250 °C to -100 °C >-100 °C to 350 °C >350 °C to 1000 °C	0.01 °C	0.7 °C 0.2 °C 0.1 °C	In house
					>-250 °C to -200 °C >-200 °C to -100 °C >-100 °C to -10 °C >-10 °C to 1000 °C	0.01 °C	2.2 °C 0.9 °C 0.6 °C 0.5 °C	Site
T.2.1	Temperature simulators using detachable type temperature sensors (type K thermocouples)	Calibration of temperature simulators by electrical measurement	CAL/TMD/07; Issue No 02 -Rev 01		-100 °C to -10 °C >-10 °C to 200 °C >200 °C to 801 °C >801 °C to 1373 °C	0.01 °C	0.7 °C 0.6 °C 0.8 °C 1.1 °C	In house /Site
T.2.2	Temperature simulators using detachable type temperature sensors (type T thermocouples)	Calibration of temperature simulators by electrical measurement	CAL/TMD/07; Issue No 02 -Rev 01		-199 °C to -10 °C >-10 °C to 0 °C >0 °C to 300 °C >300 °C to 400 °C	0.01 °C	1.3 °C 0.9 °C 0.6 °C 0.5 °C	In house /Site
T.2.3	Temperature simulators using detachable type temperature sensors (type J thermocouples)	Calibration of temperature simulators by electrical measurement	CAL/TMD/07; Issue No 02 -Rev 01		-100 °C to 0 °C >0 °C to 100 °C >100 °C to 400 °C	0.01 °C	0.6 °C 0.7 °C 0.8 °C	In house /Site
T.2.4	Temperature measuring indicators using detachable type thermocouple sensors (type E thermocouples)		CAL/TMD/07; Issue No 02 -Rev 01		-100 °C to 201 °C >201 °C to 400 °C >400 °C to 601 °C >601 °C to 1001 °C	0.01 °C	0.7 °C 0.9 °C 1.4 °C 2.0 °C	In house /Site