



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

Valid from 26 March 2024
to 16 May 2024
Issued on 26 March 2024



ISO/ IEC 17025
CL 012-01

Schedule of Accreditation

Accreditation Scheme for Testing / Calibration Laboratories
Sri Lanka Accreditation Board for Conformity Assessment
Accreditation Number: CL 012-01

WAGA Calibration Services (Pvt) Ltd
173, High Level Road, Maharagama

Scope of Accreditation: Mechanical calibrations on Pressure and force, Length calibration, Time and frequency Calibration, Electrical Calibration, and Measurement Verification.

The laboratory is accredited for the following calibrations.

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability	Location
Pressure						
1.1	Pneumatic Pressure Gauges	Measurement of differential pressure gauge	WAGA/CM/011	-75 mbar to -37.5 mbar	0.46 mbar	In-house/ Site
		Measurement of static gauge pressure		-37.5 mbar to 37.5 mbar	0.04 mbar	
	Hydraulic Pressure Gauges	Measurement of static gauge pressure		37.5 mbar to 75 mbar	0.46 mbar	
				0 to 40 bar	0.004 bar	
				0 to 100 bar	0.01 bar	
0 to 700 bar	0.01 bar					
0 to 1000 bar	0.06 bar					
1.2	Pressure Transmitter/ Transducer	Measurement of differential pressure	WAGA/CM/021	-75 mbar to 75 mbar	0.001 mV/V/mbar 0.0008 mA/A/mbar	Laboratory
		Measurement of pneumatic pressure		0 to 40 bar	0.001 mV/V/bar 0.0003 mA/A/bar	
		Measurement of hydraulic pressure		0 to 700 bar	0.002 mV/V/bar 0.002 mA/A/bar	
				0 to 1000 bar	0.011 mV/V/bar 0.011 mA/A/bar	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability	Location
Dimension						
2.1	Dial gauge	Linear measurement by direct comparison	WAGA/CM/035	0 to 25 mm 25 mm to 50 mm	0.9 μm 6.0 μm	Laboratory
2.2	Steel Ruler	Linear measurement by direct comparison	WAGA/CM/014	0 to 1000 mm	0.29 mm	Laboratory
2.3	Vernier Caliper	Linear measurement by direct comparison	WAGA/CM/036	0.5 mm to 150 mm 150 mm to 500 mm 500 mm to 1000 mm (External calibration)	0.9 μm 8.8 μm 13 μm	Laboratory
				0.5 mm to 200 mm (Depth calibration)	0.9 μm	
2.4	External Micrometer	Linear measurement by direct comparison	WAGA/CM/013	0.5 mm to 50 mm 50 mm to 100 mm 100 mm to 500 mm	1.0 μm 1.3 μm 2.0 μm	Laboratory
2.5	Height Gauge	Linear measurement by direct comparison	WAGA/CM/037	0.5 mm to 200 mm 200 mm to 300 mm 300 mm to 500 mm	8.8 μm 9.5 μm 10.0 μm	Laboratory
2.6	Feeler Gauge	Linear measurement by direct comparison	WAGA/CM/043	0.05 mm to 1 mm	2.3 μm	Laboratory
2.7	Test sieve	Linear measurement by direct comparison	WAGA/CM/048	20 μm – 100 mm	3.1 μm	Laboratory
2.8	Anemometer	Linear measurement by direct comparison	WAGA/CM/046	2 ms^{-1} – 20 ms^{-1}	0.71 ms^{-1}	Laboratory
2.9	Shrinkage Ruler	Linear measurement by direct comparison	WAGA/CM/053	1 mm to 1000 mm	0.41 mm	Laboratory
Force						
3.1	Uniaxial force testing machine	Measurement of static force in tensile and compression modes (Class 0.5, 1, 2 & 3 machines)	WAGA/CM/012	20 kN to 60 kN	0.6 to 2.0 %	Site
		Measurement of static force in compression modes		20 kN to 60 kN	0.3 to 0.5 %	
3.2	Torque Measuring Devices	Torque measurement by direct comparison	WAGA/CM/040	0 to 50 Nm	0.88 Nm	Laboratory
				0 to 220 Nm	0.88 Nm	
				0 to 2200 Nm	0.88 Nm	
3.3	Load cell	Measurement of static force in Tension mode (Class 0.5,1,2 & 3 machines)	WAGA/CM/118	20 kN to 60 kN	0.6 to 2.0 %	Laboratory
		Measurement of static force in compression modes		20 kN to 60 kN	0.1 to 2.6 %	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability	Location
3.4	Proving rings/CBR machine	Measurement of static force in Tension mode (Class 0.5, 1, 2 & 3 machines)	WAGA/CM/316	20 kN to 60 kN	0.6 to 2.0 %	Laboratory/Ste
				20 kN to 60 kN	0.3 to 0.5 %	Laboratory/Ste
Electrical						
4.1	Analog and Digital Electrical Measuring Equipment/Indicator		WAGA/CM/030	0 mV to 20 mV 20 mV to 200 mV 0.2 V to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	0.0006 mV 0.0011 mV 0.0061 mV 0.06 mV 0.61 mV 2.2 mV	Laboratory
				-10 mV to 1 V 1 V to 12 V	0.001 mV 0.58 mV	Site
				1 mV to 20 mV (50 Hz to 100 kHz) 20 mV to 200 mV (50 Hz to 100 kHz) 0.2 V to 2 V (50 Hz to 100 kHz) 2 V to 20 V (50 Hz to 100 kHz) 20 V to 200 V (50 Hz to 1 kHz) 200 V to 1000 V (50 Hz to 1 kHz)	0.006 mV 0.009 mV 0.035 mV 0.22 mV 2.0 mV 0.037 V	Laboratory
				0 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 20 A	0.001 μA 0.01 μA 0.1 μA 2 μA 20 μA	Laboratory
				0 mA to 22 mA	58 μA	Site
				10 μA to 200 μA (50 Hz to 1 kHz) 200 μA to 2 mA (50 Hz to 1 kHz) 2 mA to 20 mA (50 Hz to 1 kHz) 20 mA to 200 mA (50 Hz to 1 kHz) 200 mA to 20 A (50 Hz to 500 Hz)	0.06 μA 0.07 μA 0.001 mA 0.01 mA 0.05 mA	Laboratory
				0.1 Hz to 10 MHz 10 MHz to 100 MHz	0.0058 mHz 0.058 mHz	Laboratory
				100 Hz to 50 kHz	0.058 mHz	Site
				1 mH to 10.0 mH (1 kHz) 10 mH to 100 mH (1 kHz) 100 mH to 1 H (1 kHz) 1 H to 10 H (1 kHz)	1.1 μH 11 μH 0.11 mH 1.1 mH	Laboratory
				1 Ω to 1 kΩ 1 kΩ to 1 MΩ 1 MΩ to 120 MΩ 1 GΩ	5.8 mΩ 5.8 Ω 0.58 kΩ 5.8 MΩ	Laboratory
				1 Ω to 400 Ω 400 Ω to 4.0 kΩ	0.006 Ω 11 mΩ	Site
				1 nF to 1 μF (1 kHz) 1 μF to 100 μF (100 Hz)	0.0008 nF 0.8 nF	Laboratory
				-1 to 1 (Lagging & Leading)	0.0024	Laboratory

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability	Location
4.2	Analog and Digital Electrical Equipment with sources	DC Voltage	WAGA/CM/030	0 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.0009 mV 0.011 mV 0.10 mV 1.4 mV	Laboratory
				0 mV to 1 V 1 V to 20 V 20 V to 30 V 30 V to 600 V	0.0009 mV 0.09 mV 0.24 mV 0.013 V	Site
		AC Voltage(rms)		10 mV to 100 mV (50 Hz to 1 kHz) 100 mV to 10 V (50 Hz to 1 kHz) 10 V to 100 V (50 Hz to 1 kHz) 100 V to 1000 V (50 Hz to 1 kHz)	0.007 mV 0.12 mV 1.4 mV 0.014 V	Laboratory
				10 mV to 600 mV (50 Hz to 1 kHz) 0.6 V to 6 V (50 Hz to 1 kHz) 6 V to 60 V (50 Hz to 1 kHz) 60 to 600 V (50 Hz to 1 kHz)	0.11 mV 1.4 mV 9.0 mV 0.012 V	Site
		DC Current		0 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A	0.1 μA 0.5 μA 8.2 μA 82 μA	Laboratory
				0 A to 30 mA 30 mA to 6 A 6 A to 10 A	0.59 mA 1.1 mA 11 mA	Site / Laboratory
		AC Current (rms)		0.1 A to 1 A (50 Hz to 500 Hz) 1 A to 3 A (50 Hz to 500 Hz)	0.024 mA 0.24 mA	Laboratory
				3 mA to 100 mA (50 Hz to 500 Hz) 100 mA to 6 A (50 Hz to 500 Hz) 6 A to 10 A (50 Hz to 500 Hz)	1.1 mA 1.2 mA 2.1 mA	Site / Laboratory
		Digital Frequency		1 Hz to 1 kHz 1 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz to 10 MHz	0.067 Hz 0.67 Hz 1 Hz 0.7 kHz	Laboratory
				10 Hz to 10.0 kHz 10 kHz to 50 kHz	0.11 Hz 0.15 Hz	Site
		Resistance		0 Ω to 0.1 kΩ 0.1 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ	0.12 Ω 0.7 Ω 2.9 Ω 0.07 kΩ 6.9 kΩ	Laboratory
				1 Ω to 6 kΩ 6 kΩ to 60 kΩ 60 kΩ to 600 kΩ 600 kΩ to 6 MΩ 6 MΩ to 40 MΩ	0.11 Ω 1.3 Ω 0.11 kΩ 0.13 kΩ 1.3 kΩ	Site
		Capacitance		1 nF to 500 nF 500 nF to 1 μF 1 μF to 20 μF 20 μF to 100 μF	1.1 nF 1.2 nF 8.2 nF 0.082 μF	Laboratory / Site

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability	Location
4.3	Clamp Meters	DC Current	WAGA/CM/027	1 μ A to 200 μ A 0.2 mA to 200 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A 20 A to 100 A 100 A to 500 A 500 A to 1100 A	0.059 μ A 1.2 μ A 0.12 mA 1.2 mA 12 mA 0.12 A 0.58 A 2.9 A	Laboratory
		AC Current		10 μ A to 200 μ A (50 Hz to 1 kHz) 0.2 mA to 2 mA (50 Hz to 1 kHz) 2 mA to 200 mA (50 Hz to 1 kHz) 200 mA to 2 A (50 Hz to 1 kHz) 2 A to 20 A (50 Hz to 1 kHz) 20 A to 100 A (50 Hz to 1 kHz) 100 A to 500 A (50 Hz to 1 kHz) 500 A to 1100 A (50 Hz to 1 kHz)	0.061 μ A 1.2 μ A 0.12 mA 1.3 mA 12 mA 0.12 A 0.58 A 2.9 A	Laboratory
		AC Voltage		1 mV to 20 mV (50 Hz to 20 kHz) 20 mV to 200 mV (50 Hz to 20 kHz) 0.2 V to 2 V (50 Hz to 20 kHz) 2 V to 20 V (50 Hz to 20 kHz) 20 V to 200 V (50 Hz to 1 kHz) 200 V to 1000 V (50 Hz to 20 kHz)	0.006 mV 0.009 mV 0.035 mV 0.22 mV 2.0 mV 0.037 V	Laboratory
		DC Voltage		0 mV to 20 mV 20 mV to 200 mV 0.2 V to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	0.0006 mV 0.0011 mV 0.0061 mV 0.06 mV 0.61 mV 2.2 mV	Laboratory
		Resistance		1 Ω to 1 k Ω 1 k Ω to 1 M Ω 1 M Ω to 120 M Ω 1 G Ω	5.8 m Ω 5.8 Ω 0.58 k Ω 5.8 M Ω	Laboratory
4.4	Insulation Testers	Generation of Insulation Resistance	WAGA/CM/028	100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 200 M Ω 200 M Ω to 1 G Ω 1 G Ω 10 G Ω 10 G Ω to 100 G Ω	0.012 k Ω 0.012 M Ω 0.013 M Ω 0.33 M Ω 0.027 G Ω 0.12 G Ω	Laboratory
		Open Circuit Voltage (Measurement of Voltage)		0 kV to 2 kV 2 kV to 10 kV	6.0 V 7.4 V	
		Short Circuit Current (Measurement of Current)		0 mA to 2 mA 2 mA to 20 mA	0.01 mA 0.03 mA	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	Calibration Measurement Capability	Location
4.5	Multimeters	DC Voltage	WAGA/CM/017	0 mV to 20 mV 20 mV to 200 mV 0.2 V to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	0.0006 mV 0.0011 mV 0.0061 mV 0.06 mV 0.61 mV 2.2 mV	Laboratory
		AC Voltage		1 mV to 20 mV (50 Hz to 20 kHz) 20 mV to 200 mV (50 Hz to 20 kHz) 0.2 V to 2 V (50 Hz to 20 kHz) 2 V to 20 V (50 Hz to 20 kHz) 20 V to 200 V (50 Hz to 1 kHz) 200 V to 1000 V (50 Hz to 1 kHz)	0.006 mV 0.009 mV 0.068 mV 0.22 mV 2.0 mV 0.037 V	
		DC Current		0 μ A to 200 μ A 200 μ A 2 mA 2 mA 20 mA 20 mA to 200 mA 200 mA to 20 A	0.001 μ A 0.01 μ A 0.1 μ A 2 μ A 20 μ A	
		AC Current		10 μ A to 200 μ A (50 Hz to 1 kHz) 200 μ A to 2 mA (50 Hz to 1 kHz) 2 mA to 20 mA (50 Hz to 1 kHz) 20 mA to 200 mA (50 Hz to 1 kHz) 200 mA to 20 A (50 Hz to 500 Hz)	0.06 μ A 0.07 μ A 0.001 mA 0.01 mA 0.05 mA	
		Resistance		1 Ω to 1 k Ω 1 k Ω to 1 M Ω 1 M Ω to 120 M Ω 1 G Ω	5.8 m Ω 5.8 Ω 0.58 k Ω 5.8 M Ω	
		Capacitance		1 nF to 1 μ F (1 kHz) 1 μ F to 100 μ F (100 Hz)	0.0008 nF 0.8 nF	
		Digital Frequency		0.1 Hz to 10 MHz 10 MHz to 100 MHz	0.0058 mHz 0.058 mHz	
4.6	Calibration of pH Meter	Simulation of Voltage (Indicator)	WAGA/CM/024	0 pH, 4 pH, 7 pH, 10 pH, 14 pH (-413 mV to +413 mV)	0.0006 pH	Laboratory / Site
		Standard Reference Buffer Solutions (Electrode)		pH 0 to 14	0.007 pH	

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location	
Time and Frequency							
5.1	Tachometers	Non-Contact Type by Electrical Pulse	WAGA/CM/019	6 rpm to 1000 rpm 1000 rpm to 10000 rpm 10000 rpm to 100000 rpm	0.007 rpm 0.06 rpm 0.6 rpm	Laboratory	
5.2	Rotating Machines (including centrifuges)	Speed	WAGA/CM/018	6 rpm to 1000 rpm	3.6 rpm	Laboratory/ Site	
				1000 rpm to 99,999 rpm	5.4 rpm		
5.3	Stop watch/Timers	Calibration in Stop watch / timers direct comparison	WAGA/CM/055	1 sec to 99999 sec	Will Update (waiting for new report)	Laboratory	
5.4	Tachometer (Contac type)	Rotation speed	WAGA/CM/058	10 rpm to 10000 rpm	3.1 rpm	Laboratory	
Measurement verification							
6.1	Sample cutter	Linear measurement (Area calculation)	WAGA/CM/006	0 to 150 mm	0.01 mm	In-house/ Site	
6.2	Pilling & Snagging Tester (Box & Drum)	Linear measurement	WAGA/CM/008	5 mm to 320 mm	0.03 mm	Site	
		Speed measurement		6 rpm to 5000 rpm	3.6 rpm		
		Time measurement		1 sec to 45 min	1.3 sec		
		Pressure		0 to 10 bar	0.07 bar		
6.3	Crock meter	Force measurement	WAGA/CM/001	1 N to 11 N	0.01 N	In-house/ Site	
		Linear measurement		5 mm to 110 mm (stroke)	0.02 mm		
				5 to 20 mm (peg dia.)	0.02 mm		
		Speed measurement		10 to 100 rpm	2.4 rpm		
6.4	Metal detector	Apparel Industry (nine point)	WAGA/CM/033	0.8 mm to 1.2 mm (ferrous)	*	Site	
		Products/Packs (Convey belt)					
		Dry Products (0 to 200 mm product height)	WAGA/CM/033	1.0 mm to 1.8 mm (ferrous)	*	Site	
				1.2 mm to 2.2 mm (non-ferrous/aluminum)	*		
				1.5 mm to 3.0 mm (stainless steel 316)	*		
		Wet Product (0 to 200 mm product height)	WAGA/CM/033	1.8 mm to 3.0 mm (ferrous)	*		
				2.5 mm to 4.0 mm (non-ferrous/aluminum)	*		
				3.5 mm to 5.0 mm (stainless steel 316)	*		

SI No	Type of instrument	Calibration performed	Calibration methods / Measurement procedure	Range of calibration	CMC values	Location		
6.4	Metal detector	Aluminum Foil Pack (0 to 100 mm Product height)	WAGA/CM/033	1.0 mm to 4.0 mm (ferrous)	*	Site		
		Aluminum Foil Pack (100 mm to 200 mm Product height)		1.0 mm to 1.6 mm (ferrous)	*			
		Free Fall Vertical Packing Application						
		Dry Products (0 to 250 mm aperture diameter)	WAGA/CM/033	1.0 mm to 1.8 mm (ferrous)	*	Site		
				1.2 mm to 2.0 mm (non-ferrous /aluminum)	*			
				1.5 mm to 2.5 mm (stainless steel 316)	*			
		Wet/Frozen Products and Metallized Film Packed Products (0 to 250 mm aperture diameter)	WAGA/CM/033	1.5 mm to 2.5 mm (ferrous)	*	Site		
				2.0 mm to 3.2 mm (non-ferrous /aluminum)	*			
				2.5 mm to 4.0 mm (stainless steel 316)	*			
		Pipeline Application (Liquids, Slurries and Pastes)						
		Wet Products (0 to 100 mm internal pipe diameter)	WAGA/CM/033	1.5 mm to 2.5 mm (ferrous)	*	Site		
				2.5 mm to 3.0 mm (non-ferrous /aluminum)	*			
				3.0 mm to 4.0 mm (stainless steel 316)	*			

Director / CEO

Sri Lanka Accreditation Board for Conformity Assessment