



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

## PROMPT ENGINEERING & TRADING SERVICES CO.WLL

SHOP NO. 19 & 20, BUILDING NO. 6, BARWA VILLAGE, ZONE: 91, STREET NO: 294  
DOHA 24067, QATAR

### Calibration Laboratory CL-165

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 21, 2024

Expiration Date January 1, 2025



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## PROMPT ENGINEERING & TRADING SERVICES CO.WLL

[www.promptqatar.com](http://www.promptqatar.com)

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*Accredited to ISO/IEC 17025:2017*

*Effective Date March 21, 2024*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<b>Dimensional</b>			
External Micrometer <sup>5</sup>	Up to 150 mm	1.9 µm	Using slip gauge set Grade "0", optical parallel and optical flat by direct method
Calipers <sup>5</sup>	Up to 300 mm	9 µm	Using slip gauge set Grade "0" by direct method
Height Gauge <sup>5</sup>	Up to 600 mm	11 µm	Using surface plate, slip gauge set Grade "0" and length bars by direct method
Thickness Gauge <sup>5</sup>	Up to 5 mm 5 mm to 50 mm	1 µm 6 µm	Using Slip gauge set Grade "0" by direct method
Feeler Gauge <sup>5</sup>	0.01 mm to 1 mm	2 µm	Using Digital Micrometer by direct method
Standard Foils <sup>5</sup>	Up to 5000 µm	2.6 µm	Using Digital Micrometer by direct method
Ring Gauges / Setting rings <sup>6</sup>	7 mm to 125 mm	2.6 µm	Using Micro-height by direct method
<b>Mechanical</b>			
Pressure (Pneumatic) Pressure and Vacuum Gauge / Recorder/ Transducer/ Safety Valve <sup>5</sup>	-0.85 bar to 2 bar	0.91 %	Using Automatic Pressure calibrator by direct method
	0.2 bar to 20 bar	0.08 %	Using Pressure Calibrator by direct method
	1 bar to 150 bar	0.28 %	Using pneumatic calibrator with Reference Pressure gauge by comparison method
Pressure (Hydraulic) Pressure Gauge / Recorder / Transducer <sup>6</sup>	20 bar to 700 bar	0.03 %	Hydraulic Dead weight Tester by direct method
	700 bar to 1400 bar	0.44 %	

\* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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Vibration Meter/Analyzer <sup>5</sup>	Single point - 10 m/s <sup>2</sup>	0.38 m/s <sup>2</sup>	Using Calibration Exciter by direct method
Sound Level Meter <sup>5</sup>	94 dB and 104 dB @ 1 kHz	0.6 dB	Using Acoustic calibrator by direct method
Sound Level Calibrator <sup>5</sup>	94 dB and 114 dB @ 1 kHz	1.4 dB	Using Reference Sound level meter by direct method
Anemometer (Hot Wire, Vane Type and Pitot Tube Anemometer) <sup>5</sup>	2.5 m/s to 15 m/s	0.55 m/s	Using Laboratory grade, Bench top mini wind tunnel, reference anemometer & reference pitot tube by comparison method
Torque Wrenches (CW & CCW) <sup>5</sup>	10 N·m to 1000 N·m 1000 N·m to 3000 N·m	0.71 % 0.4 %	Using Torque Transducers and Calibration Station by direct method
Force – Compression Testing Machine <sup>5</sup>	2 kN to 100 kN 100 kN to 3000 kN	0.08 % 0.07 %	Using Load Cell by direct method
Analytical / Laboratory / Industrial Balance <sup>5</sup>	1 mg to 2100 g 2100 g to 5000 g 5 kg to 200 kg	0.006 g 0.023 g 28 g	Using E2, F1 and M1 Class Weights by direct method
Weights <sup>5</sup>	100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	8 mg 8.3 mg 8.3 mg 8 mg 9 mg 17 mg 15 mg 240 mg	Using mass comparator and E2, F2, M1 reference weights by comparison method
<b>Thermal</b>			
Temperature Controller / Indicator / Recorder / with Sensor / Thermometer / Thermocouple / RTD Sensor / Temperature Gauge / Transmitter <sup>5</sup>	-40 °C to 250 °C 250 °C to 660 °C	0.094 °C 0.61 °C	Using Dry Block Metrology Well, Micro Bath / with PRT Secondary Standard by comparison method
Infrared Thermometer <sup>5</sup>	-15 °C to 120 °C 50 °C to 500 °C	0.7 °C 1.0 °C	Using IR calibrator by direct method
Oven / Incubator / Freezer (Mapping – Multi Sensor method) <sup>5</sup>	-80 °C to 419 °C	0.63 °C	Using Reference PRT's with Indicator by direct method
Humidity meters / loggers / recorders <sup>5</sup>	10 %RH to 95 %RH (@18 °C to 25 °C)	0.70 %	Using Humidity Generator by Direct method

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<b>Electrical – DC/LF</b>							
DC Current Generate <sup>3,5</sup>	0 µA to 329.999 µA	16 nA + 0.04 %	Using Electrical Multifunction Calibrator & 50 Turn Current Coil by direct method.				
	0.33 mA to 3.29999 mA	0.02 %					
	3.3 mA to 32.9999 mA	0.06 %					
	33.0 mA to 329.999 mA	0.02 %					
	0.330 A to 1.09999 A	0.06 %					
	1.1 A to 2.99999 A	0.11 %					
	3.0 A to 10.9999 A	0.08 %					
	11 A to 20 A	0.08 %					
20 A to 1000 A	0.50 %						
AC Voltage Generate <sup>3,5</sup>	(10 Hz to 500 Hz) 1.0 mV to 32.99 mV	0.14 %	Using Electrical Multifunction Calibrator by direct method				
	(10 Hz to 500 kHz) 33 mV to 329.999 mV 0.33 V to 3.29999 V	0.10 % 0.08 %					
	(10 Hz to 100 kHz) 3.3 V to 32.9999 V	0.08 %					
	(45 Hz to 100 kHz) 33 V to 329.999 V	0.08 %					
	(45 Hz to 10 kHz) 330 V to 1020 V	0.063 %					
AC Current Generate <sup>3,5</sup>	(50 Hz to 1 kHz) 0.029 mA to 0.32999 mA 0.33 mA to 3.29999 mA 3.3 mA to 32.9999 mA 33 mA to 329.999 mA 0.33 A to 2.99999 A 3 A to 20.5 A	0.40 % 0.11 % 0.27 % 0.06 % 0.08 % 0.19 %	Using Electrical Multifunction Calibrator by direct method				
	(50 Hz to 400 Hz) 20 A to 1000 A 1000 A to 4500 A	1.3 % 0.6 %					
	DC Voltage Generate <sup>3,5</sup>	0 mV to 329.9999 mV 0.33 V to 3.299999 V 3.3 V to 32.99999 V 33 V to 329.9999 V 330 V to 1020.000 V		1 µV + 0.1 % 0.06 % 0.06 % 0.015 % 0.015 %	Using Electrical Multifunction Calibrator by direct method		
		DC Resistance Generate <sup>3,5</sup>		0 Ω to 10.0 Ω 10.0 Ω to 100.0 Ω 100.0 Ω to 1.0 MΩ 1.0 MΩ to 100.0 MΩ 100.0 MΩ to 1100 MΩ		10 mΩ + 0.12 % 0.027 % 0.0079 % 0.07 % 1.8 %	Using Electrical Multifunction Calibrator (2-wire and 4-wire) by direct method

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Frequency Generate <sup>3,5</sup>	0.01 Hz to 119.99 Hz 120.0 Hz to 1199.9 Hz 1.200 kHz to 11.999 kHz 12.00 kHz to 119.99 kHz 120.0 kHz to 1199.9 kHz 1.200 MHz to 2.000 MHz	0.01 % 0.011 % 0.29 % 0.29 % 0.12 % 0.12 %	Using Electrical Multifunction Calibrator by direct method
Rotational Speed Simulation (Non- Contact) <sup>5</sup>	10 rpm to 3000 rpm 3000 rpm to 999999 rpm	1 rpm 4 rpm	Using Electrical Multifunction Calibrator by direct method (Simulation – frequency)
Capacitance Generate <sup>3,5</sup> (100 Hz to 1 kHz)	220 pF to 1.00 nF 1.1 nF to 10.0 µF 10 µF to 1.0 mF 1 mF to 100 mF	3.9 % 0.28 % 0.61 % 0.92 %	Using Electrical Multifunction Calibrator by direct method
LF Power Generate <sup>3,5</sup> (Active/ Reactive/ Apparent) (single-phase)	0.008 W to 18 kW (40 Hz to 70 Hz) and (-1 PF to 1 PF)	0.47 %	Using Power / Energy Calibrator by direct method
LF Power Generate <sup>3,5</sup> (Active/ Reactive / Apparent) (Three -phase)	0.008 W to 54 kW (40 Hz to 70 Hz) and (-1 PF to 1 PF)	0.35 %	Using Power / Energy Calibrator by direct method
DC Power Generate <sup>3,5</sup>	0.008 W to 25.2 kW	0.40 %	Using Power / Energy Calibrator by direct method
Energy Generate <sup>3,5</sup> (single-phase)	1 V to 600 V 5 mA to 90 A (-1 PF to 1 PF)	2.8 % (of output in kWh)	Using Power / Energy Calibrator by direct method
Energy Generate <sup>3,5</sup> (3-phase)	1 V to 600 V (-1 PF to 1 PF)	0.62 % (of output in kWh)	Using Power / Energy Calibrator by direct method
Resistance Generate <sup>3,5</sup> (High voltage)	10 kΩ to 10 GΩ (@ 1575 V <sub>pk</sub> ) 10 kΩ to 100 GΩ (@ 10 kV <sub>pk</sub> )	1.6 % 1.6 %	Using Electrical Multifunction Calibrator by direct method
Leakage Current <sup>5</sup>	0.1 mA to 30 mA	0.70 %	Using Electrical Multifunction Calibrator by direct method
Residual Current Device <sup>5</sup>	Trip Current Ranges: 3 mA to 500 mA 500 mA to 3000 mA	0.31 % 2.8 %	Using Electrical Multifunction Calibrator by direct method
Oscilloscope: Time base Bandwidth Amplitude @ 1 kHz, Sine Wave <sup>3,5</sup>	2 ns to 5 s 50 kHz to 600 MHz 10 mV to 70 V	0.06 ms 3.5 % 0.4 mV	Using Electrical Multifunction Calibrator with Scope option by direct method
Temperature Simulation Generate	-200 °C to 800 °C, Pt 385,100 Ω -200 °C to 630 °C, Pt 3926,100 Ω -200 °C to 630 °C, Pt 3916,100 Ω	0.26 °C 0.26 °C 0.26 °C	Using Electrical Multifunction Calibrator by direct method

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Temperature Indicator / Controller / Recorder / Test Kit / Universal Calibrator <sup>3,5</sup>	-200 °C to 630 °C, Pt 385,200 Ω	0.26 °C	
	-200 °C to 630 °C, Pt 385,500 Ω	0.26 °C	
	-200 °C to 630 °C, Pt 385,1000 Ω	0.26 °C	
	-80 °C to 260 °C, Pt Ni 385,120 Ω (Ni 120)	0.26 °C	
	-100 °C to 260 °C, Cu 427, 10 Ω	0.26 °C	
	600 °C to 1820 °C, B Type	0.42 °C	
	0 °C to 2316 °C, C Type	0.42 °C	
	-250 °C to 1000 °C, E Type	0.42 °C	
	-210 °C to 1200 °C, J Type	0.42 °C	
	-250 °C to 1372 °C, K Type	0.42 °C	
	-200 °C to 900 °C, L Type	0.42 °C	
	-200 °C to 1300 °C, N Type	0.42 °C	
	0 °C to 1767 °C, R Type	0.42 °C	
0 °C to 1767 °C, S Type	0.42 °C		
-250 °C to 400 °C, T Type	0.42 °C		
-200 °C to 600 °C, U Type	0.42 °C		
DC Voltage Measure <sup>4,5</sup>	0 mV to 100.0 mV	0.7 μV+001 %	Using 6½ Digit Precision Multimeter by direct method
	100 mV to 10.0 V	0.001 %	
	10.0 V to 100.0 V	0.001 %	Using Precision Meter and Precision HV Bench Top by Direct Method
	100.0 V to 1000.0 V	0.002 %	
AC Voltage Measure <sup>4,5</sup> (@ 50 Hz)	0.1 kV to 90 kV	0.29 %	Using Precision Meter and Precision HV Bench Top by Direct Method
	100 mV to 1 V	0.11 %	Using 6½ Digit Precision Multimeter by direct method
	1 V to 10 V	0.11 %	
	10 V to 100 V	0.33 %	
	100 V to 1000 V	0.33 %	
	0.1 kV to 70 kV	0.49 %	Using Precision Meter and Precision HV Bench Top by Direct Method
DC Current Measure <sup>4,5</sup>	100 μA to 1 mA	0.35 %	Using 6½ Digit Precision Multimeter by direct method
	1 mA to 10 mA	0.35 %	
	10 mA to 100 mA	0.35 %	
	100 mA to 1.0 A	0.06 %	
	1 A to 3 A	0.08 %	
	3 A to 10 A	0.18 %	
	10 A to 20 A	0.18 %	
AC Current Measure <sup>4,5</sup> (50 Hz)	0 μA to 100 μA	100 pA+0.42 %	Using 6½ Digit Precision Multimeter by direct method
	100 μA to 1 mA	0.42 %	
	1 mA to 10 mA	0.42 %	
	10 mA to 100 mA	0.42 %	
	100 mA to 1.0 A	0.16 %	
	1 A to 3 A	0.29 %	
	3 A to 10 A	0.29 %	
DC Resistance Measure <sup>4,5</sup>	10 Ω to 100 Ω	0.36 %	Using 6½ Digit Precision Multimeter by direct method
	100 Ω to 1 kΩ	0.023 %	

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DC Resistance Measure <sup>4,5</sup> (cont'd.)	1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ	0.023 % 0.073 % 0.073 % 0.073 % 0.073 % 1.4 %	
Frequency Measure <sup>4,5</sup>	5 Hz to 1 MHz	0.12 %	Using 6½ Digit Precision Multimeter by direct method
Capacitance Measure <sup>4,5</sup>	1 nF to 100 mF	1.8 %	Using 6½ Digit Precision Multimeter by direct method
Temperature Measure <sup>4,5</sup> (PT 100)	-200 °C to 600 °C	0.26 °C	Using 6½ Digit Precision Multimeter by direct method
Simulated Temperature (Measure)- (Temperature Indicator / Controller / Recorder / Test Kit / Universal Calibrator / Calibrators) <sup>4,5</sup>	-200 °C to 800 °C, Pt 385 -200 °C to 630 °C, Pt 3926 -200 °C to 630 °C, Pt 3916 -200 °C to 630 °C, Pt 385 -80 °C to 260 °C, Pt Ni 385, (Ni 120) -100 °C to 260 °C, Cu 427 600 °C to 1820 °C, B Type 0 °C to 2316 °C, C Type -250 °C to 1000 °C, E Type -210 °C to 1200 °C, J Type -250 °C to 1372 °C, K Type -200 °C to 900 °C, L Type -200 °C to 1300 °C, N Type 0 °C to 1767 °C, R Type 0 °C to 1767 °C, S Type -250 °C to 400 °C, T Type -200 °C to 600 °C, U Type	0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C 0.46 °C	Using 6½ Digit Precision Multimeter & Electrical Multifunction Calibrator by direct method
Inductance Generate <sup>3,5</sup> @ 1 kHz	1 mH – 10 H	3.4 %	Using reference Decade Inductance Box by Direct method
<b>Time and Frequency</b>			
Rotational Speed (Contact) <sup>5</sup>	100 rpm to 4500 rpm	4.5 rpm	Using Reference Tachometer by Comparison method
<b>Chemical/Gas</b>			
Gas Detector Calibration <sup>6</sup> CO O <sub>2</sub> Cl <sub>2</sub> H <sub>2</sub> S LEL	100 ppm 18.0 % 10 ppm 25 ppm 50 %	1.1 parts in 10 <sup>6</sup> 0.11 % 0.067 part in 10 <sup>6</sup> 0.25 part in 10 <sup>6</sup> 0.68 %	Using Standard Reference Gas and Calibration Docking system by direct method

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CO <sub>2</sub>	0.50 %	2.1 parts in 10 <sup>6</sup>	
SO <sub>2</sub>	20 ppm	0.61 part in 10 <sup>6</sup>	
VOC (iso- Butane)	100 ppm	1.7 parts in 10 <sup>6</sup>	
NH <sub>3</sub>	25 ppm	0.10 part in 10 <sup>6</sup>	
NO	50 ppm	1.4 parts in 10 <sup>6</sup>	
NO <sub>2</sub>	10 ppm	0.21 part in 10 <sup>6</sup>	

<sup>1</sup>The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

<sup>2</sup>When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

<sup>3</sup>Capability is suitable for the calibration of measuring devices in the stated ranges.

<sup>4</sup>Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

<sup>5</sup>Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.

<sup>6</sup>Only in permanent laboratory.

CW = clockwise  
 CCW = counter-clockwise  
 LF = low frequency  
 PF = power factor  
 pk = peak  
 ppm = parts per million