



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Quantum Calibration

Islam Plaza (6th Floor), Plot-07, Main Road-03

Pallabi, Dhaka-1216, Bangladesh

This is to certify that this

Calibration Laboratory

is accredited in accordance with the international standard

ISO/IEC 17025:2017

in respect of the associated scope, subject to the terms and
conditions governing the relevant conformity assessment
body (CAB) accreditation.

Certificate Number : 02.025.26
Accreditation Date : 29 January 2026
Date of Issuance : 29 January 2026
Date of Expiration : 28 January 2029



A. Z. Islam
29.01.26
Mohd. Aminul Islam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

SCOPE OF ACCREDITATION (For Calibration Laboratory)

CAB Name & Address: Quantum Calibration
Islam Plaza (6th Floor), Main Road-3, Section-7, Pallabi, Mirpur, Dhaka-1216

Accreditation Standard: ISO/IEC 17025:2017 **Accreditation Date:** 29 January 2026
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Amendment no: -

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
Field: Field: Electro-Technical (Source)				
1.	DC Voltage	QUANTUM/CP-ET-01	2 mV - 300 mV	0.012% to 0.016%
			300mV- 3 V	0.016% to 0.0203%
			3 V - 300 V	0.0203% to 0.0133%
			300V -1020 V	0.0133% to 0.0025%
			1020 V- 15000 V	0.6031% to 0.2180%
2.	AC Voltage	QUANTUM/CP-ET-01	50Hz 3 mV - 300mV	0.4083% to 0.0391%
			50 Hz 300 mV – 300 V	0.0391% to 0.0238%
			50 Hz 300 V- 1020 V	0.0238% to 0.0374%
			10KHz 3 mV - 300mV	0.2698% to 0.0203%
			10KHz 300 mV – 300 V	0.0203% to 0.0270%
			8KHz 1000 V	0.0365%
			20KHz 30 mV - 300 mV	0.2883% to 0.0069%
			50KHz 300 V	0.05346%
			100KHz 200 V	0.2544%
3.	DC Current	QUANTUM/CP-ET-02	190 μ A – 300 μ A	0.0170% to 0.0251%
			300 μ A – 3 mA	0.0251% to 0.014%
			3 mA – 300 mA	0.014% to 0.0127%
			300 mA – 1 A	0.0127% to 0.0478%
			1 A – 10 A	0.0478% to 0.063%
			10 A – 20 A	0.063% to 0.09%
4.	AC Current	QUANTUM/CP-ET-02	50 Hz 3 mA – 300 mA	0.1502% to 0.0531%
			50 Hz 300 mA – 10 A	0.0531% to 0.0476%
			50 Hz	0.0476% to 0.4062%



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			10 A – 20 A	
			500 Hz 20 A	0.3453%
			1kHz 29 μ A	0.8392%
			5KHz 3 mA – 300 mA	0.2392% to 0.0395%
			5KHz 300 mA – 10 A	0.0395% to 0.6005%
			10KHz 29 μ A	0.5031%
			10KHz 300 mA	0.0697%
			50 Hz 300A – 1000 A	0.8057% to 0.827%
	Primary Current Injector	QUANTUM/CP-ET-02	50 Hz 1000 A - 6000 A	0.827% to 0.0467%
5.	Resistance (DC)	QUANTUM/CP-ET-04	50 Ω – 1 M Ω	0.0661% to 0.19%
			1M Ω - 100 M Ω	0.19% to 0.245%
			100 M Ω – 200 M Ω	0.245% to 0.4052%
			200 M Ω – 400 M Ω	0.4052% to 0.470%
			400 M Ω - 1100 M Ω	0. 0.470% to 0.59%
			0.100 Ω –1500 Ω	1.2% to 0.620 %
			50 M Ω – 400 M Ω	0.16%– 0.480%
			400 M Ω – 1 G Ω	0.480% to 0.642 %
			1 G Ω – 1 T Ω	0.642 % to 0.67%
			1 T Ω - 10 T Ω	0.67% to 1.6%
6.	AC Power	QUANTUM/CP-ET-07	20.1 W - 1000 KW	0.802% to 0.49%
7.	Frequency	QUANTUM/CP-ET-06	120 Hz – 500 kHz	0.003% to 0.0012%
8.	Capacitance	QUANTUM/CP-ET-05	220 pF –150 nF	2.0432% to 0.4986%
			150 nF –110 μ F	0.4986% to 0.712%
09.	Phase Angle	QUANTUM/CP-ET-03	0° - 90°	0.81% to 0.83%
Field: Field: Electro-Technical (Source)				
10.	DC Voltage	QUANTUM/CP-ET-M-01	1 mV – 10 mV	0.0297% to 0.0123%


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			10 mV – 0.1V	0.0123% to 0.0017%
			0.1V – 2V	0.0017% to 0.0005%
			2V – 200V	0.0005% to 0.0007%
			200 V – 1000 V	0.0007% to 0.0009%
	DC Voltage (Onsite)	QUANTUM/CP-ET-M-01	1kV – 10kV	0.010% to 0.4416%
			10kV – 100kV	0.4416% to 0.49%
			100KV -150KV	0.49 % to 0.54%
11.	AC Voltage	QUANTUM/CP-ET-M-01	20 Hz 3 mV –1V	0.168% to 0.0178%
			50 Hz 3 mV- 1V	0.322% to 0.0131%
			50 Hz 1V –100V	0.0131% to 0.0134%
			50 Hz 100V – 1000V	0.0134% to 0.0160%
			10KHz 3 mV- 1V	0.167% to 0.015%
			10KHz 1V –100V	0.015% to 0.03%
			100KHz 3 mV- 1V	0.841% to 0.088%
	AC Voltage (Onsite)	QUANTUM/CP-ET-M-01	50 Hz 1kV – 10kV	0.0134% to 0.075%
			50 Hz 10kV – 100kV	0.075% to 0.31%
			50 Hz 100KV -150KV	0.31% to 0.39%
12.	AC Current	QUANTUM/CP-ET-M-02	50 Hz 100μA – 100mA	0.047% to 0.059%
			50 Hz 100 mA – 1A	0.059% to 0.095%
			50 Hz 1A – 20A	0.095% to 0.116%
			5KHz 1A – 10A	0.106% to 0.306%
			10KHz 100μA – 100mA	0.089% to 0.094%


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			10KHz 100 mA – 1A	0.094% to 0.163%
	Power Quality Analyzer	QUANTUM/CP-ET-M-02	50 Hz 20A – 1000A	0.108% to 0.0667%
			50 Hz 1000A – 6000A	0.0667% to 0.0747%
13.	Resistance	QUANTUM/CP-ET-M-03	1 Ω - 1kΩ	0.007% to 0.0146%
			1 kΩ – 1 MΩ	0.0146% to 0.0243%
			1 MΩ 100 MΩ	0.0243% to 0.0254%
			100 MΩ – 20 GΩ	0.0254% to 0.2426%
Field: Electro Medical Device				
14.	Air temperature in Incubator/Radiant Warmer	QUANTUM/CP-INCUBATOR	32 °C	0.56 °C
			36 °C	0.85 °C
15.	Relative Humidity in Incubator/Radiant Warmer	QUANTUM/CP-INCUBATOR	40% RH	5.91%
			60% RH	6.75%
16.	Air velocity in Incubator/Radiant Warmer	QUANTUM/CP-INCUBATOR	0.3 m/s	0.16 m/s
			1.0 m/s	0.17 m/s
17.	Sound in Incubator/Radiant Warmer	QUANTUM/CP-INCUBATOR	60 dB(A)	2.14 dB(A)
			80dB(A)	2.14 dB(A)
18.	Positive end- expiratory pressure (PEEP)	QUATUM/CP-VENTILATOR	5 mbar	0.57 mbar
			50 mbar	0.73 mbar
19.	Inspiratory Pressure	QUATUM/CP-VENTILATOR	10 mbar	0.58 mbar
			25 mbar	0.60 mbar
			36 mbar	0.61 mbar



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20.	Monophasic Energy of Defibrillator	QUANTUM/CP- DEFIBRILLATOR/AED	90 mbar	0.70 mbar
			10J	0.63 J
			50 J	0.88 J
21.	ECG Amplitude of Defibrillator	QUANTUM/CP- DEFIBRILLATOR/AED	200 J	4.80 J
			0.3mV	0.06 mV
			5mV	0.07 mV
22.	Non-Invasive blood pressure	QUANTUM/CP- PATIENT MONITOR	30 mmHg	1.18 mmHg
			60 mmHg	1.18 mmHg
			80 mmHg	1.18 mmHg
			120 mmHg	1.18 mmHg
			150 mmHg	1.54 mmHg
			200 mmHg	2.15 mmHg
			250 mmHg	2.20 mmHg
			50W,100 Ω (cut)	4.19 W (Cut)
23.	Power Distribution of Diathermy	QUANTUM/CP-DIATHERMY	50W,300 Ω (cut)	4.2 W (Cut)
			150W,300 Ω (cut)	8.76 W (Cut)
			300 W,300 Ω (cut)	12.5 W (Cut)
			400W,500 Ω (cut)	12.2 W (Cut)
			60W,300 Ω (coag)	2.5 W (Coag)
			90W,300 Ω (coag)	3.5 W (Coag)
			120W,600 Ω (coag)	3.8 W (Coag)
			230 V(Mains)	0.16%
24.	Voltage of Medical Devices	QUANTUM/CP-E-S	0.06 Ω	2.71%
			0.3 Ω	3.30%
25.	Protective earth resistance of Medical Devices	QUANTUM/CP-E-S		



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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
26.	Leakage Current of Medical Devices	QUANTUM/CP-E-S	5 μ A	1.61 μ A
			100 μ A	1.63 μ A
			500 μ A	1.69 μ A
			1000 μ A	8.77 μ A
			5000 μ A	7.40 μ A
27.	Insulation resistance of Medical Devices	QUANTUM/CP-E-S	10 M Ω	1.03 M Ω
			100 M Ω	3.30 M Ω
Field: Thermal (In House)				
28.	RTD/Thermocouple/ PRT/ Temperature Gauge/ Temperature Indicator/ Transmitter with Sensor/ Digital Thermometer / Temperature Controller with sensor of Temperature Bath	QUANTUM/CP-TT-02	- 39 °C to 140 °C	0.24 °C to 0.8 °C
			140 °C - 650 °C	0.8 °C to 1.9 °C
29.	Glass Thermometer	QUANTUM/CP-TT-01	- 10 °C to 110 °C	0.572 °C to 1.20 °C
30.	Infrared Thermometer / Non- Contact Pyrometers / Thermal Imager	QUANTUM/CP-TT-07	50 °C - 400 °C	1.789 °C to 3.286 °C
			400 °C - 800 °C	3.286 °C to 3.878 °C
31.	Temperature Indicator (By using Thermocouple)	QUANTUM/CP-ET-14	K type Thermocouple -200 °C - 1372 °C	0.194% to 0.047%
			C type Thermocouple 0 °C - 2315 °C	0.36% to 0.042%
			J type Thermocouple -210 °C - 1200 °C	0.148% to 0.022%
			N type Thermocouple -100 °C - 1300 °C	0.456 % to 0.024%


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			R type Thermocouple 50 °C - 1767 °C	1.266% to 0.026%
			E type Thermocouple- 250 °C - 1000 °C	0.228% to 0.065%
			S type Thermocouple 50 °C - 1767 °C	1.074% to 0.030%
			T type Thermocouple -250 °C - 120 °C	0.288% to 0.44%
Field: Pressure (In House)				
32.	Hydraulic Pressure Gauge / Transmitter (Digital / Dial)/ Pressure Transducer	QUANTUM/CP-PG-01	1 - 20 bar	0.383% to 0.207%,
			20 – 1200 bar	0.207% to 0.013%
33.	Pneumatic Pressure Gauge / Transmitter (Digital / Dial)/ Pressure Transducer	QUANTUM/CP-PG-01	0.2 - 35 bar	0.04% to 0.05%
34.	Pneumatic Vacuum Gauge / Transmitter (Digital / Dial)/ Differential Pressure gauge/	QUANTUM/CP-PG-01	-0.9 to 0 bar	0.06% to 0.57%
Field: Pressure (Onsite)				
35.	Pneumatic Vacuum Gauge / Transmitter (Digital / Dial)/ Differential Pressure gauge	QUANTUM/CP-PT-01	-0.9 to 0 bar	0.576% to 0.427%
36.	Pneumatic Pressure Gauge / Transmitter (Digital / Dial)/ Pressure Transducer/ Pressure Switch	QUANTUM/CP-PT-01	0 to 20 bars	0.127% to 1.0980%
37.	Hydraulic Pressure Gauge / Transmitter (Digital / Dial)/ Pressure Transducer/	QUANTUM/CP-PT-01	0 to 30 bar	0.573% to 0.498%



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			30 to 100 bar	0.498% to 0.315%
			100 to 200 bar	0.315% to 0.126%
Field: Mechanical (Sound)				
38.	Sound Level Meter (Sound level Calibrator/ Sound Meter)	QUANTUM/CP-SM-01	94 dB	1.567 dB
			114 dB	1.125 dB
39.	Air Velocity (Vane Anemometer/ Airflow Meter/ Air Velocity Meter/ Hot Air Anemometer)	QUANTUM/CP-AV-01	2.7 m/s – 8.1 m/s	0.058 m/s to 0.1308 m/s
Field: Mechanical (Speed)				
40.	Tachometer (Contact)-	QUANTUM/CP-TC-01	100 RPM to 12000 RPM	0.13 % to 0.26 %
41.	Tachometer (Noncontact)	QUANTUM/CP-TC-01	20000 RPM to 99999 RPM	0.0511% to 0.0796%
Field: Mechanical (Balance)				
42.	High Precision Balance	QUANTUM/CP-BL-01	1g to 500g	0.00056 g
			500g to 1000g	0.2 g
			1 Kg to 10 Kg	2 g
			10 Kg to 40Kg	4 g
43.	Analytical Balance Meter	QUANTUM/CP-BL-01	1mg to 200g	0.6880% to 0.0170%
Field: Mechanical (Volume)				
44.	Burette	QUANTUM/CP-BC-01	1ml - 50ml	1.2% - 0.3611%
45.	Micro Pipette Meter	QUANTUM/CP-MP-01	100 µl - 1000 µl	0.0879 µl
Field: Mechanical (Mass)				
46.	Standard F1 (Conventional Mass)	QUANTUM/CP-ML-01	1-5 mg	0.009 mg
			10 mg	0.009 mg
			20 mg	0.01 mg
			50 mg	0.01 mg


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			200 mg	0.056 mg
			500 mg	0.062 mg
			1 g	0.000014 g
			2 g	0.000018 g
			5 g	0.000022 g
			10 g	0.000024 g
			20 g	0.000036 g
			50 g	0.000042 g
			100 g	0.000072 g
			200 g	0.00014 g
			500 g	0.00044 g
			1 kg	0.0011 g
			2 kg	0.0913145 g
			5 kg	0.1083 g
			10 kg	0.078 g
			20 kg	0.02 g
Field: Mechanical (Torque)				
47.	Torque Wrench, Torque Meter, Torque Analyzer, Torque Driver	QUANTUM/CP-TW-01	18 Nm - 2000 Nm	0.18% to 0.15 %
Field: Mechanical (Force)-Onsite				
48.	Force	QUANTUM/CP-FC-01	20 kN – 3000 kN	5.6952% to 0.2116%
49.	Force Gauge / Tension Meter	QUANTUM/CP-FC-01	0.1 kN – 50 kN	0.566% to 2.8106 %
Field: Mechanical (Time & Frequency)				
50.	Digital Stopwatch	QUANTUM/CP-TIME-01	10 s to 60 s	0.0756 – 0.0859 s
			60 sec to 3600 sec	0.0859 – 0.254 s
			3600 sec to 86400 sec	0.254 – 1.676 s
Field: Mechanical (Dimension)				
51.	Dial / Digimatic / Vernier Caliper /	QUANTUM/CP-CC-01	0 mm – 150 mm	0.008 mm


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	Inside Dial Caliper/ Steel Scale		150 mm – 990 mm	0.08 – 0.011 mm
52.	Screw Gauge/ Dial / Digimatic / Vernier Height Gauge/ Slide Caliper/ Digimatic Caliper	QUANTUM/CP-SD-01	0.5 mm – 25 mm	0.001 mm
			50 mm	0.001 mm
			75 mm	0.001 mm
			100 mm	0.001 mm
53.	External Micrometer / Inside Micrometer / Outside Micrometer / Micrometer Head / Depth Micrometer	QUANTUM/CP-CC-01	20 mm – 600 mm	0.006 mm - 0.0008 mm
Field: Mechanical (Flow)				
54.	Liquid Flow Meter	QUANTUM/CP-LF-01	1m ³ /h- 4000m ³ /h	0.92 m ³ /h
Field: Mechanical (Lux)				
55.	Illuminance of OT light/Lux Meter	QUANTUM/CP-OT-LIGHT	10 to 200000 Lux	3.3452% to 3.8956%

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