

ACCREDITATION CERTIFICATE

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

ION Engineering (Pvt.) Ltd.

1st Floor, House#1259, Road #10, Avenue #02

Mirpur DOHS, 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 : 02.016.22
Accreditation Date : 29 November 2022
Date of Issuance : 24 December 2025 (1st Renewal)
Date of Expiration : 28 November 2028



A. Islam.
28/12/2022
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: ION Engineering (Pvt.) Ltd.

1st Floor, House #1259, Road # 10, Avenue # 2, Mirpur DOHS, Dhaka-1216,
Bangladesh.

Accreditation Standard: ISO/IEC 17025:2017

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Last Amended on: -

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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)
Field: Thermal				
1	Digital & Analog Thermometers/ PT100/ RTD/ TC with/ without Controller/Indicator, Temperature Sensor/Transmitter/ Switch, Infrared Thermometer, Melting Point Apparatus/Polarimeter/ Iron Machine (In Lab & On Site)	ION.WI-46M	(-40 to 50) °C (50 to 150) °C (150 °C to 650) °C	± 0.07 °C ± 0.11 °C ± 0.16 °C
Field: Thermal				
2	Glass Type Thermometers, Digital Thermometers, Temperature Gauges/Indicator BOD Sensor (In Lab & On Site)	ION.WI-45M	(-20 to 50) °C (50 to 150) °C (150 °C to 650) °C	± 0.07 °C ± 0.12 °C ± 0.18 °C
Field: Thermal				
3	Temperature Baths, Incubators, Oven, Autoclave, Muffle Furnace, Refrigerator, Environmental / Climatic Humidity Chamber, Tunnel, Storage Area,	ION.WI-47M	(-40 to 200) °C (300 to 400) °C (300 to 1500) °C	± 0.08 °C ± 0.17 °C ± 0.31 °C


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	(Cold Room, Warehouse), Washing Machine, Dryer Machine, Well Blocks, Black Body Source/ Hot Surface /Hot Plate, Whirling Hygrometer, Thermal Imager, Molding Machine, COD Reactor, Heat Seal, Fusing Machine, Moisture Analyzer, Washcator, Gyrowash, Tumble Dryer, Water Bath, Sterilizer, Ozone Machine (In Lab & On Site)			
Field: Thermal (Humidity)				
4	Humidity, Data logger, Humidity Chamber, Moisture Meter, Thermo-Hygrograph / Dehumidifier (In Lab)	ION.WI-49M	(5 to 95) %RH	± 0.65% RH
Field: Electro- Technical				
5	AC Voltage (10 Hz to 1 kHz) & DC Voltage (Multi-meter, Clamp Meter, Process Calibrator, Energy Meter)	ION.WI-60M	Upto 300mV 300mV- 3V 3V- 30V 30V-300V 300V-1000V	± 0.001V to 0.002V ± 0.002V to 0.243V ± 0.243V to 0.346V ± 0.346V to 1.777V ± 1.777V to 5.90V
Field: Electro- Technical				
	AC Current (10 Hz to 1		Upto 30mA	± 0.010A to 0.010A


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6	kHz) & DC Current (Multi-meter, Clamp Meter, Process Calibrator, Energy Meter)	ION.WI-60M	30mA- 300mA 300mA- 3A 3A- 10A	$\pm 0.010A$ to $0.013A$ $\pm 0.013A$ to $0.053A$ $\pm 0.053A$ to $0.174A$
Field: Electro- Technical				
7	Resistance, Insulation Resistance Tester, Earth Tester. (Ohms)	ION.WI-60M	Upto 400 Ω 400 Ω to 4 k Ω 4 to 40 k Ω 40 to 400 k Ω 400 k Ω to 4 M Ω 4 to 40 M Ω	$\pm 2.365\Omega$ $\pm 2.365\Omega$ to 0.239Ω $\pm 0.239\Omega$ to 0.523Ω $\pm 0.523\Omega$ to 2.363Ω $\pm 2.363\Omega$ to 0.484Ω $\pm 0.484\Omega$ to 0.535Ω
Field: Electro- Technical				
8	Frequency Capacitance Inductance Watt	ION.WI-60M	Up to 100 kHz 1 nF – 1000 μ F 100 μ H-100 mH Voltage 0 to 600 V Current 0 to 1000 A	± 5.910 Hz to 6.13 Hz $\pm 0.11\%$ $\pm 0.11\%$ $\pm 0.22\%$ $\pm 0.22\%$
Field: Mechanical (Pressure)				
9	Analog/Digital Pressure /Vacuum Gauge, Pressure/ Vacuum Transmitter/Switch/Sen sor/Safety Valve/Float Valve/ Pressure Measuring Equipment/ Dead Weight Tester (Pneumatic/Hydraulic)/ Hydrotest/ Pressure / Vacuum Pump/ Snap Button Tester/Bursting Strength Tester	ION.WI-31M ION.WI-30M	(-0.95 to 0) bar (0 to 30) bar (0 to 450) bar (0 to 700) bar (0 to 1000) bar	± 0.006 bar ± 0.008 bar ± 0.012 bar ± 0.036 bar ± 0.036 bar

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	Manometer/ Differential Pressure Gauge / Transmitter/ Barometer (Both Lab & Onsite)	ION.WI-32M	-1000 to 2000 mbar 300 hPa to 1100 hPa	± 0.012 to 0.018 mbar ± 1.9 hPa
Field: Mechanical (Weight)				
10	Mass Weights (In Lab & On Site)	ION.WI-01M	1mg 2mg 5mg 10mg 20mg 50mg 100mg 200mg 500mg 1g 2g 5g 10g 20g 50g 100g 200g 500g 1kg 2kg 5kg 10Kg 20kg 50 kg	±0.006mg ±0.006mg ±0.006mg ±0.008mg ±0.01mg ±0.012mg ±0.016mg ±0.02mg ±0.025mg ±0.03mg ±0.04mg ±0.05mg ±0.06mg ±0.08mg ±0.1mg ±0.16mg ±0.3mg ±2.5mg ±5mg ±10mg ±25mg ±50mg ±100mg ±200 mg
Field: Mechanical (Weight)				
11	Digital Balance / Scale Semi-Micro Balances Analytical Balances/Electronic Balance/Bond Tester / Truck	ION.WI-02M	1 mg to 220 g Up to 6 kg Up to 100 kg Up to 500 kg Up to 2000 kg Up to 5000 kg	±0.12 mg ± 0.4 g ± 1.2 g ± 1.2 g ± 4.5 g ± 25 g


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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)
	Scale/Lift/Crane /Pirsprometer (In Lab & On Site)			
Field: Mechanical (volume)				
12	Micro Pipette /	ION.WI-03M	0 µl to 100 µl	± 0.1 µl
	Multichannel		100 µl to 500 µl	± 0.22 µl
	Micropipette / Auto		500 µl to 1000 µl	± 0.32 µl
	Pipette / Micro		1 ml to 5 ml	± 2 µl
	Syringe / Auto		5 ml to 10 ml	± 4 µl
	Dispenser / Glass		10 ml to 50 ml	± 5 µl
	Pipette / Burette /		50 ml to 100 ml	± 6 µl
	Volumetric Flask /		100 ml to 500 ml	± 0.2 ml
	Measuring Cylinder		500 ml to 1000 ml	± 0.5 ml
	/ Beaker / Jars/		1000 ml to 5000 ml	± 0.8 ml
	Pycnometer/Karl		5000 ml to 20000 ml	± 1.2 ml
	Fisher/Conical Flask (In Lab & On Site)			
Field: Mechanical (Dimension)				
13	Digital Caliper / Vernier	ION.WI-11M	0-300 mm	±10 µm
	Caliper		0-1000 mm	±0.75 µm
	Steel Scale/	ION.WI-12M	0-1000 mm	±200(√L/1000) µm
	Measuring Tape		Up to 50 mtr	(L is in mm)
	Shrinkage template & Ruler			
	(External/ Inside/ Outside/ Depth) Micrometer	ION.WI-13M	0-25 mm	±1 µm
	Height Gauge	ION.WI-14M	0-1000 mm	±15 µm
	Digital Thickness		0-25 mm	±7 µm


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	Gauge / Ultrasonic Thickness Gauge/ Coating Thickness Gauge/ Dial Indicator/Gauge Block Set/Sharp Point Tester/Depth Gauge/Sharp Edge	ION.WI-18M	0-100 mm	±9 µm
	Bore Gauge /Feeler Gauge /Foil/ Lever Dial Gauge	ION.WI-19M	0-2 mm	±1.5 µm
	Angle Gauge Block / Set Square / T- Square/Triangle Set / Circular Protractor / Bevel Protractor / Angle Protractor	ION.WI-20M	0 to 360 °	0.08' of arc
	Go & No Go Gauge / Slip Gauge Set / Test Sieves/Depth Gauge	ION.WI-21M	0 to 40 mm	±13 µm
	Microscope/Profile Projector	ION.WI-25M	X ruler 1mm/100 1 Div. = 0.01mm	0.35%
	Velocity (Bio-Safety Cabinet, Laminar Air Flow) etc.	ION.WI-26M	(0.4~30) m/s	0.12 m/s
	Metal Detector Machine/ Test Card/Scanner	ION.WI-27M	0.8, 1.0 & 1.2 (Fe Ø) 0.8, 1.0 & 1.2 (Non- FeØ)	0.02%
Field: Mechanical (Speed)				
14	Non-Contact / Contact	ION.WI-16M	5 RPM to 60000 RPM	± 0.5 rpm


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	Tachometer / Travel Speed / Surface Speed / Amplitude / Elongation/Shaker /Centrifuge Machine/Martindale & Pilling Tester/Wrap Reel		0 mm to 2000 mm/min Up to 50 m/min	± 0.2 to 0.5 m/min
Field: Mechanical (Time)				
15	Digital/Analog Timer/ Stop Watches/Time Interval Meter / On-off Timer / Breaker Timer / Relay Timer/ Flammability Tester/Crock master /Spray Rating/Stretch & Recovery Tester	ION.WI-22M	1 s to 24 hr	± 0.0059 hr
Field: Mechanical (Sound)				
16	Acoustics Sound Level Meter / Sound Level Calibrator (1 kHz)	ION.WI-17M	94 dB, 104 dB & 114 dB	± 0.6 dB
Field: Mechanical (Lux)				
17	UV/Lux Meter / Light Box / Light Source / Pilling Viewer / Pili Scope, Fabric Inspection Machine/ Light Shade/ Gray	ION.WI-23M	10 Lux to 20000 Lux	± 0.72 % of rdg


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	Scale/Irradiance Meter/Pyranometer Meter/Solar Meter			
Field: Mechanical (Force)				
18	Uniaxial Testing Machine (Universal, Tensile, Compression testing machine) & Load Cell with Indicator, Titan 5, Elmatear, Ele Twist	ION.WI-36M	1 cN to 1 kN 1 kN to 50 kN 50 kN to 500 kN 500 kN to 2000 kN	± 0.02 % ± 0.2 % ± 0.26 % ± 0.30 %
	Push Pull Tester / Force Gauge / Tension Meter/ Hardness Tester / Shore Hardness tester / Hardness Tester	ION.WI-37M	0 to 30 kgf 0 to 50 kgf Up to 500 kgf (0 – 100) HA/HD (10 – 650) HBW (5 – 3000) HV (0 – 500) lbf	± 0.1 to 0.5 gf ± 0.1 to 0.8 gf ± 0.05 to 0.1 gf ± 0.42 % ± 0.5 %
	Torque Meter, Torque Analyzer, Torque Driver, Torque Wrench	ION.WI-38M	1.5 – 100 kgf.cm 0.15 - 10 N.m 10 to 3000 N.m	± 0.32 % ± 0.32 % ± 0.21 %
Field: Mechanical (Flow)				
19	Water / Oil / Steam/Ultrasonic/Gas Flow Meter/Transmitter/ Sensor/Regulator	ION.WI-41M	(0 to 15000) m ³ /hr	± 0.18 %
Field: Mechanical (Meter)				
20	PH Meter	ION.WI-42M	0 to 14 pH	± 0.34 %
	Conductivity Meter	ION.WI-43M	0 to 1999 µS/cm	± 0.51 %
	ORP Meter	ION.WI-44M	0 to 1000 mV	± 0.02 %
	TDS Meter	ION.WI-45M	(0 to 5000) ppm	± 0.32 %


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	Do Meter	ION.WI-46M	(0 to 200) %	± 0.22 %
	Chlorine meter	ION.WI-47M	(0–200) ppm	± 0.18 %
	Viscosity Meter	ION.WI-48M	(0 to 10000) cP	± 0.02%
	Density Meter/ Hydrometer	ION.WI-49M	(0 to 2.0) g/ml	(0.0002 to 0.0052) g/ml



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