



# ACCREDITATION CERTIFICATE

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

**OTS (Pvt.) Ltd.**

**Navana DH Tower, Level - 3  
6 Panthapath, Dhaka - 1215, 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 : 02.004.15  
Accreditation Date : 27 August 2015  
Date of Issuance : 16 October 2024 (3rd Renewal)  
Date of Expiration : 26 August 2027



*5555*  
Md. Anwarul Alam  
Director General  
16.10.2024



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)

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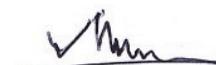
**Issued on:** 16 October 2024

**Last Amended on:** N/A

**Valid until:** 26 August 2027

**Amendment no:** N/A

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
<b>Field: Pressure &amp; Vacuum</b>				
01	Pressure			
	Pressure gauge (Dial and Digital), Pressure Transmitter, Pressure Switch, Pressure Transducer, Pressure Sensor, Safety Valve (Pneumatic)	comparison method as per DKD-R-6-1 (OTS.WI-33M)	0 to 1 bar	±0.00021 bar
	Pressure gauge (Dial and Digital), Pressure Transmitter, Pressure Switch, Pressure Transducer, Pressure Sensor, Safety Valve (Pneumatic)	comparison method as per DKD-R-6-1 (OTS.WI-34M)	0 to 7 bar	±0.00033 bar
	Pressure gauge (Dial and Digital), Pressure Transmitter, Pressure Switch, Pressure Transducer, Pressure Sensor, Safety Valve (Pneumatic)	comparison method as per DKD-R-6-1 (OTS.WI-34M)	0 to 35 bar	±0.006 bar



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	Pressure gauge (Dial and Digital), Pressure Transmitter, Pressure Switch, Pressure Transducer, Pressure Sensor, Safety Valve (Hydraulic)	comparison method as per DKD-R-6-1 (OTS.WI-35M)	0 to 700 bar	±0.054 bar
	Pressure gauge (Dial and Digital), Pressure Transmitter, Pressure Switch, Pressure Transducer, Pressure Sensor, Safety Valve (Hydraulic)	comparison method as per DKD-R-6-1 (OTS.WI-35M)	0 to 1000 bar	±0.057 bar
	Pressure gauge (Dial and Digital), Pressure Transmitter, Pressure Switch, Pressure Transducer, Pressure Sensor, Safety Valve (Hydraulic)	comparison method as per DKD-R-6-1 (OTS.WI-35M)	0 to 2000 bar	±0.073 bar



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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)
	Differential Pressure Gauge/Transmitter/ Transducer/Sensor/ Manometer (Pneumatic)	comparison method as per DKD-R-6-1 (OTS.WI-40M)	-160 to 0 mbar (Negative)	±0.06 mbar
	Differential Pressure Gauge/Transmitter/ Transducer/Sensor/ Manometer (Pneumatic)	comparison method as per DKD-R-6-1 (OTS.WI-40M)	0 to 160 mbar (Positive)	±0.05 mbar
02	Vacuum			
	Vacuum Gauge, Transmitter Sensor, valve (Dial and Digital)	comparison method as per DKD-R-6-1 (OTS.WI-33M)	(-) 0.9 bar to 0	±0.00029 bar
	<b>Field: Force</b>			
03	Force			
	Force Sensor/ Compression Tester/UTM	Comparison method, (WI- 03 M)	0 to 10KN	±0.05 % rdg
	Force Sensor/ Compression Tester/UTM	Comparison method, (WI- 03 M)	10KN to 100KN	±0.2 % rdg
	Force Sensor/ Compression Tester/UTM	Comparison method, (WI- 03 M)	100 KN to 1000 KN	±0.2 % rdg
	Force Sensor/ Compression Tester/UTM	Comparison method, (WI- 03 M)	1000KN to 3000KN	±0.2 % rdg

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<b>Field: Thermal</b>				
04	Temperature			
	RTD/Thermocouple, Temperature Sensor with and without Controller/Indicator	OTS.WI-021	(-) 95 °C to 0 °C 0 °C to 150 °C 150 °C to 600 °C	±0.15 °C ±0.15 °C ±0.46 °C
	Glass Type Thermometers	OTS.WI-022	(-) 20 °C to 100 °C 100 °C to 150 °C	±0.55 °C ±0.79 °C
	Infrared/Non- Contact Thermometers Emissivity- 0.95(±0.02 from 8 to 14 mm) Thermometers	OTS.WI-023	-35 °C to 500 °C	±2.03 °C
	Temperature Indicators/ Sensors of Liquid Baths, Dry Well Blocks, Oven	OTS.WI-018A	(-)70°C to 150°C 150°C to 600°C	±0.45 °C ±0.45 °C
	Sensor with indicator of Incubator (non- medical device), Thermal Chamber/ Source, Refrigerator	OTS.WI-018M	-40 to 140 °C	±0.45 °C

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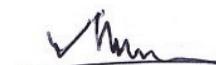
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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	Temperature Indicator Sensor of Muffle Furnace/ Dry Block	OTS.WI-018A	250 °C to 1200 °C	±1.73 °C
05	Humidity			
	Humidity Sensor with Indicator/ Controller, Thermo Hygrometer, Humidity Chamber	OTS.WI-023	15% to 95% RH @ 25 °C 10°C to 70°C @ 50%	±1.16% RH ±0.58 °C
	<b>Field: Torque</b>			
06	Torque			
	Torque Wrench Type-I Class B & C Type-II Class A & B	Comparison method as per IS 16906-2018, (OTS.WI- 10M)	2 Nm to 50 Nm	±0.5 % rdg
	Torque Wrench Type-I Class B & C Type-II Class A & B	Comparison method as per IS 16906-2018, (OTS.WI- 10M)	50 Nm to 200 Nm	±0.1 % rdg
	Torque Wrench Type-I Class B & C Type-II Class A & B	Comparison method as per IS 16906-2018, (OTS.WI- 10M)	200 Nm to 1000 Nm	±0.2 % rdg
	<b>Field: Mechanical (Dimension)</b>			
07	Vernier Caliper (LC- 0.01 mm)	WI-05M	0-300 mm	±10 µm
	(LC- 0.01 mm)	WI-05M	0-1000 mm	±11 µm
	(LC- 0.02 mm)	WI-05M	0-1000 mm	±17 µm



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08	Height Gauges			
	LC- 0.01 mm	WI-09M	0 -1000 mm	±11 µm
	LC- 0.02 mm	WI-09M	0 -1000 mm	±16 µm
09	Measuring Tape	WI-36M	Up to 50 mtr	±700(√L/1000) µm (L is in mm)
10	Steel Scale	WI-37M	Up to 2 mtr	±700(√L/1000) µm (L is in mm)
11	External Micrometer			
	LC- 0.001 mm	WI-06M	0-25 mm	±1.0 µm
	LC- 0.01 mm	WI-06M	0-25 mm	±6.0 µm
12	Plunger Dial Gauge			
	LC- 0.001 mm	WI-013M	0-10 mm	±3.0 µm
	LC- 0.01 mm	WI-013M	0-12 mm	±8.0 µm
13	Lever Dial Gauge			
	LC- 0.001 mm	WI-014M	0-0.14 mm	±3.1 µm
	LC- 0.002 mm	WI-014M	0-0.20 mm	±3.2 µm
	LC- 0.01 mm	WI-014M	0-0.80 mm	±3.8 µm
14	Dial Thickness Gauge			
	LC- 0.01 mm	WI-08M	0-25 mm	±7 µm
15	Feeler Gauge	WI-016M	Up to 1.00 mm	±3.8 µm
16	Sped (RPM)	WI-012M	6-99999 RPM	±1.5%
		WI-012M	1-25000 RPM	±1.5%
17	Stop Watches/ Counters/Timers	WI-017M	15 Sec to 24 Hrs	±1 Sec
18	Sound Level Meter	WI-38M	94.0dB & 114.0 dB	±0.16 dB & 0.17 dB
19	Light Intensity	WI-19M	100 to 100000 Lux	±4% Lux
20	Angle Protector	WI-52M	0° to 90°	±0.05°

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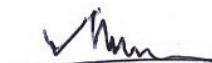
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<b>Field: Mass &amp; Volume</b>				
21	MASS (Balance) (On site & in Lab)	OTS.WI-01M	(0 to 2.1) g	±0.0002mg
		OTS.WI-01M	(2.1g to 210) g	±0.02 mg
		OTS.WI-01M	(210 to 1.2) kg	±0.01 g
		OTS.WI-01M	(1.2 to 12.2) kg	±0.20 g
		OTS.WI-01M	(12.1 to 100) kg	±2.05 g
22	MASS (Conventional) Weights	OTS.WI-02M	1 mg	±0.001 mg
		OTS.WI-02M	2 mg	±0.001 mg
		OTS.WI-02M	5 mg	±0.001 mg
		OTS.WI-02M	10 mg	±0.001 mg
		OTS.WI-02M	20 mg	±0.001 mg
		OTS.WI-02M	100 mg	±0.001 mg
		OTS.WI-02M	200 mg	±0.001 mg
		OTS.WI-02M	500 mg	±0.001 mg
		OTS.WI-02M	1 g	±0.01 mg
		OTS.WI-02M	2 g	±0.01 mg
		OTS.WI-02M	5 g	±0.01 mg
		OTS.WI-02M	10 g	±0.01 mg
		OTS.WI-02M	20 g	±0.01 mg
		OTS.WI-02M	50 g	±0.01 mg
		OTS.WI-02M	100 g	±0.02 mg
		OTS.WI-02M	200 g	±0.03 mg
		OTS.WI-02M	500 g	±6.1 mg



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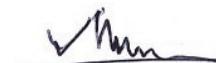
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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
		OTS.WI-02M	1 kg	±0.01 g
		OTS.WI-02M	2 kg	±0.08 g
		OTS.WI-02M	5 kg	±0.08 g
		OTS.WI-02M	10 kg	±0.9 g
		OTS.WI-02M	20 kg	±0.9 g
23	Micro Syringe/ Auto Pipette/ Micro Pipette	OTS.WI-011M	1µl to 20µl	±0.006 µl
		OTS.WI-011M	20µl to 3000µl	±0.004 µl
24	Measuring Pipette/ Bulb Pipette	OTS.WI-011M	1 ml	±0.00005 ml
		OTS.WI-011M	2ml	±0.00002 ml
		OTS.WI-011M	5 ml	±0.00002 ml
		OTS.WI-011M	10 ml	±0.00002 ml
		OTS.WI-011M	25 ml	±0.00002 ml
		OTS.WI-011M	50 ml	±0.00002 ml
		OTS.WI-011M	100 ml	±0.00002 ml
25	Burette	OTS.WI-011M	10 ml	±0.00002 ml
		OTS.WI-011M	20 ml	±0.00002 ml
		OTS.WI-011M	25 ml	±0.00002 ml
		OTS.WI-011M	50 ml	±0.00002 ml
		OTS.WI-011M	100 ml	±0.00002 ml



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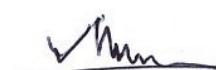
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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
26	Flask/ Beaker/Measuring Cylinder	OTS.WI-011M	10 ml	±0.00002 ml
		OTS.WI-011M	20 ml	±0.00002 ml
		OTS.WI-011M	50 ml	±0.00002 ml
		OTS.WI-011M	100 ml	±0.00002 ml
		OTS.WI-011M	500 ml	±0.15 ml
		OTS.WI-011M	1000 ml	±0.25 ml
27	Density	OTS.WI-41M	(1.400 to 1.500) Sp.gr	±0.002 Sp.gr
		OTS.WI-41M	(1.000 to 2.000) Sp.gr	±0.002 Sp.gr
<b>Field: Flow</b>				
28	Flow			
	Flow Meter/Magnetic Flow Meter/Flow Indicator	OTS.WI-139M	0 m <sup>3</sup> /h to 50 m <sup>3</sup> /h	±0.5 % rdg
	Flow Meter/Magnetic Flow Meter/Flow Indicator	OTS.WI-139M	50 m <sup>3</sup> /h to 200 m <sup>3</sup> /h	±0.5 % rdg
	Flow Meter/Magnetic Flow Meter/Flow Indicator	OTS.WI-139M	0 m <sup>3</sup> /h to 500 m <sup>3</sup> /h	±0.5 % rdg

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