



# ACCREDITATION CERTIFICATE

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

**CS LAB LIMITED**

**36 Sonargaon Janapath, Sector 12, Uttara**

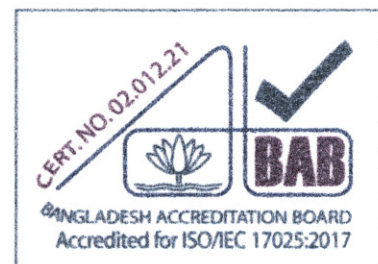
**Dhaka, Bangladesh**


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 : **02.012.21**  
Accreditation Date : **15 February 2021**  
Date of Issuance : **19 September 2022**  
Date of Expiration : **14 February 2024**



  
**Md. Monwarul 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:** CS LAB LIMITED

36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh

**Accreditation Standard:** ISO/IEC 17025:2017

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**Last Amended on:** 19 Sep 2022

**Valid until:** 14 Feb 2024

**Amendment no:**

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
<b>Field: Thermal</b>				
1	Temperature- (Thermometer / Digital Thermometer / Temperature Sensor / Temperature Data Logger / Temperature Indicators) (In Lab & On Site)	CS Lab CP- 03	(-)80 °C – (-)40 °C (-)40 °C - 50 °C >50 °C - 200 °C >200 °C - 400 °C >400 °C - 600 °C	±0.1 °C ±0.09 °C ±0.1 °C ±0.1 °C ±0.15 °C
<b>Field: Thermal (RTD Indicators)</b>				
2	RTD Indicators (In Lab & On Site)	CS Lab CP- 22	(-)80 °C - 40 °C >(-)40 °C - 0 °C >0 °C - 30 °C >30 °C - 150 °C >150 °C - 250 °C	±0.2 °C ±0.2 °C ±0.2 °C ±0.2 °C ±0.2 °C
<b>Field: Thermal</b>				
3	Temperature (With or without pressure / Humidity) Controlled, Autoclaves, Incubators, Ovens, Environmental Chambers, Refrigerators, Freezers, Dry Heat Sterilizer, Tunnel, Muffle Furnace and Storage Area, (Cold Room, Warehouse), (Inclusive of Associated Indicators, Controllers and Recorders, All with sensors, within the specified parameters	CS Lab CP- 17	(-)86 °C - 40 °C (-)40 °C - 0 °C 0 °C - 30 °C 30 °C - 140 °C 140 °C -1300 °C	±0.2 °C ±0.05 °C ±0.05 °C ±0.05 °C ±0.4 °C

(Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping.)

  
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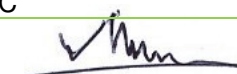
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and ranges)				
<b>Field: Thermal (Humidity)</b>				
4	Humidity – (Sensor / Hygrometer / Data Logger) (In Lab)	CS Lab CP- 13	10 – 90% RH	±1.08% RH
<b>Field: Electrical, (Temperature Simulation of Thermocouple Indicators)</b>				
5	J Type Thermocouple (In Lab & On Site)	CS Lab CP- 21	-210 to -100 °C	±0.32 °C
			-100 to -30 °C	±0.2 °C
			-30 to 150 °C	±0.19 °C
			150 to 760 °C	±0.21 °C
Type E Thermocouple (In Lab & On Site)	CS Lab CP- 21	-250 to -100 °C	±0.32 °C	
		-100 to -25 °C	±0.2 °C	
		-25 to 350 °C	±0.19 °C	
		350 to 950 °C	±0.21 °C	
Type K Thermocouple (In Lab & On Site)	CS Lab CP- 21	-200 to -100 °C	±0.4 °C	
		-100 to -25 °C	±0.25 °C	
		-25 to 120 °C	±0.2 °C	
		120 to 1000 °C	±0.32 °C	
		1000 to 1300 °C	±0.48 °C	
Type T Thermocouple (In Lab & On Site)	CS Lab CP- 21	-250 to -150 °C	±0.73 °C	
		-150 to 0 °C	±0.31 °C	
		0 to 120 °C	±0.2 °C	
		120 to 400 °C	±0.18 °C	
Type R Thermocouple (In Lab & On Site)	CS Lab CP- 21	-50 to 100 °C	±0.3 °C	
		100 to 400 °C	±0.3 °C	
		400 to 1000 °C	±0.4 °C	
		1000 to 1700 °C	±0.6 °C	
Type S Thermocouple (In Lab & On Site)	CS Lab CP- 21	-50 to 100 °C	±0.3 °C	
		100 to 400 °C	±0.3 °C	
		400 to 1000 °C	±0.4 °C	
		1000 to 1700 °C	±0.6 °C	
Type B Thermocouple	CS Lab CP- 21	50 to 200 °C	±0.2 °C	
		200 to 600 °C	±0.3 °C	



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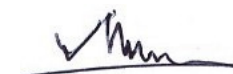
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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	(In Lab & On Site)		600 to 1000 °C	±0.4 °C
			1000 to 1800 °C	±0.6 °C
	Type N Thermocouple (In Lab & On Site)	CS Lab CP- 21	-200 to -100 °C	±0.4 °C
			-100 to -25 °C	±0.3 °C
			-25 to 120 °C	±0.4 °C
			120 to 1000 °C	±0.6 °C
			1000 to 1300 °C	±0.7 °C
			5-10kΩ	±0.7%
<b>Field: Mechanical (volume - Pipette)</b>				
6	Micro-Pipettes (Single Channel, Fixed Volume & Multichannel) (In Lab)	CS Lab CP- 05	10 µl	±0.008 µl
			20 µl	±0.008 µl
			10-100 µl	±0.015 µl
			20-200 µl	±0.020 µl
			100-1000 µl	±0.045 µl
			1-10 ml	±1.00 µl
<b>Field: Mechanical (volume - Dispensers)</b>				
7	Dispensers (Varispenser) (In Lab)	CS Lab CP- 16	0.2ml	±0.015µl
			0.5ml	±0.05µl
			0.2-2ml	±0.2µl
			0.5-5ml	±0.4µl
			1-10ml	±0.7µl
			2.5-25ml	±0.05ml
			50ml	±0.07ml
			10-100ml	±0.1ml
<b>Field: Mechanical (Volume - Volumetric Glassware)</b>				
8	Volumetric Glassware / Laboratory Ware / Burette Pipette Measuring Cylinder / Volumetric Flask / Beakers / Jars / Other Laboratory Wares (In Lab)	CS Lab CP- 23	1ml-20ml	±0.0070ml
			200ml	±0.0035ml
			500ml	±0.0061ml
			2000ml	±0.0093ml
			5000ml	±0.0098ml
			20000ml	±0.1000ml

**Field: Mechanical (Balance)**



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9	Balance / Scale Semi-Micro Balances  Analytical Balances Top Loading Balances (In Lab & On Site)	CS Lab CP- 10	Up to 52g (0.01 mg)	±0.01mg
			Up to 120g (0.01 mg)	±0.12mg
			Up to 220g (0.01 mg)	±0.15mg
			Up to 100Kg (≤5g)	±4g
			Up to 500Kg (≤5g)	±8g
<b>Field: Mechanical (Weight)</b>				
10	Mass Weights (In Lab & On Site)	CS Lab CP- 09	1mg	±0.006mg
			2mg	±0.006mg
			5mg	±0.006mg
			10mg	±0.008mg
			20mg	±0.01mg
			50mg	±0.012mg
			100mg	±0.016mg
			200mg	±0.02mg
			500mg	±0.025mg
			1g	±0.03mg
			2g	±0.04mg
			5g	±0.05mg
			10g	±0.06mg
			20g	±0.08mg
			50g	±0.1mg
			100g	±0.16mg
			200g	±0.3mg
500g	±2.5mg			
1kg	±5mg			
2kg	±10mg			
5kg	±25mg			
10Kg	±50mg			
20kg	±100mg			
<b>Field: Mechanical (Pressure)</b>				
11	Pressure Gauge ( Differential Pressure Gauge, Manometer) (In Lab & On Site)	CS Lab CP- 01	-0.29 to -0.073 psi	±0.00045 psi
			-0.73 to -0.035 psi	±0.00045 psi
			-0.035 to 0.073 psi	±0.00045 psi
			0.073 to 0.218 psi	±0.00045 psi
			0.218 to 0.363 psi	±0.00045 psi
12	Barometric Pressure	CS Lab CP- 01	700-900 hPa	±4.5 hPa

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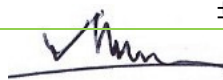
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	Measurement (In Lab & On Site)		900-1100 hPa	±4.5 hPa
13	Vacuum Pressure Gauge (In Lab & On Site)	CS Lab CP- 01	-0.8 to 0 bar	±0.04bar
14	Pressure Gauge / Pressure Sensor / Transmitter (In Lab & On Site)	CS Lab CP- 01	0-10 bar 10-20 bar	±0.04bar ±0.04bar
15	Pressure (High Pressure) Pressure Measuring Equipment ( Pressure Gauge / Pressure Sensor / Transmitter) (In Lab & On Site)	CS Lab CP- 01	0-50 bar 50-100 bar 100-200 bar 200-300 bar 300-400 bar 400-500 bar 500-600 bar 600-700 bar	±0.0120 bar ±0.0220 bar ±0.0420 bar ±0.0980 bar ±0.0840 bar ±0.1000 bar ±0.1200 bar ±0.1400 bar
<b>Field: Mechanical (Time and Frequency)</b>				
16	Stopwatches / Timers (In Lab & On Site)	CS Lab CP- 11	1s 30s 60s 3600s 86400s	±0.042s ±0.042s ±0.042s ±1.0s ±5.184s
<b>Field: Mechanical (Dimension - Length)</b>				
17	Vernier Caliper / Digimatic Caliper	CS Lab CP- 18	0 to 100 mm 0 to 600 mm	±0.00006 mm ±0.00096 mm
18	External Micrometer	CS Lab CP- 19	0 to 600 mm	±0.0525 mm
19	Plunger Dial Gauge (In Lab & On Site)	CS Lab CP- 20	0 to 25 mm	±0.0505 mm
<b>Field: Mechanical (Acoustic)</b>				
20	Sound (In Lab & On Site)	CS Lab CP- 14	94 114	±0.5 dB ±0.5 dB
<b>Field: Mechanical (Rotation / Speed)</b>				
21	Tachometer and RPM (Contact)	CS Lab CP- 12	0-10 rpm 10-100 rpm	±3.2 %rdg ±1.0 %rdg

  
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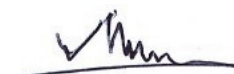
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			100-500 rpm	±0.20 %rdg
			500-1000 rpm	±0.20 %rdg
			1000-3000 rpm	±0.20 %rdg
			3000-5000 rpm	±0.10 %rdg
			5000-6000 rpm	±0.10 %rdg
22	Tachometer and RPM (Non-Contact) (In Lab & On Site)	CS Lab CP- 12	0-1000 rpm	±3.0 %rdg
			1000-5000 rpm	±0.1 %rdg
			5000-50000 rpm	±0.05 %rdg
			50000-90000 rpm	±0.05 %rdg
<b>Field: Mechanical (Optical)</b>				
23	Light- Measure (In Lab & On Site)	CS Lab CP- 15	Up to 100 Lux	±4.75% Lux
			Up to 2000 Lux	±2.40% Lux
			Up to 5000 Lux	±2.10% Lux
			Up to 10000 Lux	±2.05% Lux
			Up to 16000 Lux	±2.05% Lux

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