

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 Accreditation Date Date of Issuance Date of Expiration
- 02.012.21 15 February 2021 08 February 2024 ¹ 14 February 2027





APPER

Md. Anwarul Alam **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: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditation I Issued on: Valid until:	Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027	
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement I range/value G a	Measurement Capabilities expressed as expanded uncertainty U (k=2)	
Field:	Thermal				
1	Temperature-	CS Lab CP- 03	(-)80°C − (-)40°C	±0.1 °C	
	Thermometer /		(-)40 ℃ - 50 ℃	±0.09 °C	
	Temperature Sensor		>50 ℃ - 200 ℃	±0.1℃	
	Logger / Temperature		>200 ℃ - 400 ℃	±0.1 °C	
	(In-house & On Site)		>400 ℃ - 600 ℃	±0.15℃	
2 Temperature-		CS Lab CP- 03	(-)80 ℃ – (-)40 ℃	±0.1 °C	
	Thermometer / Temperature Sensor / Temperature Data Logger / Temperature without Indicators) (In-house & On Site)		(-)40 ℃ - 50 ℃	±0.09°C	
			>50 ℃ - 200 ℃	±0.1 °C	
		1	>200 ℃ - 400 ℃	±0.1 °C	
			>400 ℃ - 600 ℃	±0.15℃	
Field:	Thermal (RTD Indica	tors)			
3	RTD Indicators (In-ho	^{use} CS Lab CP- 22	(-)80 ℃ - 40 ℃	±0.2℃	
	a on sile)		>(-)40 °C - 0 °C	±0.2°C	
			>0℃ - 30℃	±0.2°C	
			>30℃ - 150℃	±0.2°C	
			>150℃ - 250℃	±0.2°C	
Field:	Thermal				
4	Temperature (With or without pressure /	CS Lab CP- 17	(-)86°C - 40°C	±0.2°C	
	Humidity) Controlled,		(-)40 ℃ - 0 ℃	±0.05℃	
	Autoclaves, Incubator Ovens, Water Bath,	S,	0℃ - 30℃	±0.05℃	
	Environmental		30℃ - 140℃	±0.05 ℃	



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Sector 12, Ut	tara, Dhaka, Banglade	sh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	Chambers, Refrigerators, Freezers, Dry Heat Sterilizer, Tunnel, Muffle Furnace, (Inclusive of Associated Indicators, Controllers and Recorders, All with sensors, within the specified parameters and ranges)	(Single and multipoint tim	140℃ -1300℃	±0.4℃
	ranges/	as spatial	temperature surveying of	r mapping.)

5 Temperature (With or CS Lab CP-17 (-)86°C - 40°C ±0.2℃ without pressure / Humidity) Controlled, (-)40°C - 0°C ±0.05℃ Environmental 0°C - 30°C ±0.05℃ Chambers, Cold room, warehouse, Storage area 30℃ - 140℃ ±0.05℃ (Inclusive of Associated 140℃ -1300℃ Indicators, Controllers ±0.4℃ and Recorders, All with (Single and multipoint time dependent temperature profiling, also referred to sensors, within the as spatial temperature surveying or mapping.) specified parameters and ranges)

Field: Thermal (Humidity)

6 Humidity – (Sensor / CS Lab CP- 13 10 – 90% RH ±1.08% RH Hygrometer / Data Logger) (In-house)

Quality Manager



SCOPE OF ACCREDITATION

.

		(For Calibration	n Laboratory)	
САВ	Name & Address:	CS LAB LIMITED		
		36 Sonargaon Janapath, Se	ector 12, Uttara, Dhaka, I	Bangladesh
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditatio Issued on: Valid until:	on Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
Field	: Electrical, (Temperat	ure Simulation of Thermoc	ouple Indicators)	
7	J Type Thermocouple	CS Lab CP- 21	-210 to -100 ℃	±0.32 °C
			-100 to -30 ℃	±0.2℃
	(In-house & On Site)		-30 to 150 ℃	±0.19℃
			150 to 760 ℃	±0.21 ℃
	Type E Thermocouple	e CS Lab CP- 21	-250 to -100 ℃	±0.32℃
	(In-house & On Site)		-100 to -25 °C	±0.2°C
			-25 to 350 ℃	±0.19℃
			350 to 950 ℃	±0.21 ℃
	Type K Thermocouple	e CS Lab CP- 21	-200 to -100 °C	±0.4 °C
	(In-house & On Site)		-100 to -25 ℃	±0.25 ℃
			-25 to 120 ℃	±0.2°C
			120 to 1000 ℃	±0.32 °C
			1000 to 1300 ℃	±0.48 °C
	Type T Thermocouple	CS Lab CP- 21	-250 to -150 °C	±0.73 ℃
	(In-house & On Site)		-150 to 0 ℃	±0.31 ℃
			0 to 120 °C	±0.2°C
			120 to 400 °C	±0.18℃
	Type R Thermocouple	e CS Lab CP- 21	-50 to 100 ℃	±0.3°C
	(In-house & On Site)		100 to 400℃	±0.3℃
			400 to 1000 ℃	±0.4°C
			1000 to 1700 ℃	±0.6°C
	Type S Thermocouple	e CS Lab CP- 21	-50 to 100 ℃	±0.3℃

(In-house & On Site)

100 to 400℃

400 to 1000 ℃

±0.3℃

±0.4℃



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Secto	or 12, Uttara, Dhaka, Banglade	esh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
			1000 to 1700 ℃	±0.6°C
	Type B Thermocouple	CS Lab CP- 21	50 to 200 ℃	±0.2°C
			200 to 600 ℃	±0.3 <i>°</i> C
	(In-house & On Site)		600 to 1000 ℃	±0.4 °C
			1000 to 1800 °C	±0.6°C
	Type N Thermocouple	CS Lab CP- 21	-200 to -100 °C	±0.4 °C
	(In-house & On Site)		-100 to -25 ℃	±0.3℃
			-25 to 120 ℃	±0.4 °C
			120 to 1000 ℃	±0.6°C
			1000 to 1300 °C	±0.7℃
			5-10kΩ	±0.7%
8	AC Current	CS Lab CP- 30	2 to 20 mAmp	±0.05%rdg
	(In-house & On Site)		20 to 200 mAmp	±0.08%rdg
			0.2 to 2 Amp	±0.14%rdg
			2 to 10 Amp	±0.14%rdg
			0.2 to 1000 Amp	±0.5%rdg
9	DC Current	CS Lab CP- 30	2 to 20 mAmp	±0.008%rdg
	(In-house & On Site)		20 to 200 mAmp	±0.02%rdg
			0.2 to 2 Amp	±0.045%rdg
			2 to 10 Amp	±0.055%rdg
10	AC Voltage	CS Lab CP- 30	0.2 to 2 V	±0.04%rdg
	(In-house & On Site)		2 to 20 V	±0.04%rdg
			20 to 200V	±0.06%rdg
			200 to 1000 V	±0.03%rdg
11	DC Voltage	CS Lab CP- 30	0.2 to 2 V	±0.002%rdg
				Mun



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Sec	tor 12, Uttara, Dhaka, Banglade	esh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	(In-house & On Site)		2 to 20 V	±0.0025%rdg
			20 to 200V	±0.0025%rdg
			200 to 1000 V	±0.0025%rdg
12	Frequency	CS Lab CP- 30	0- 10 HZ	±0.06%rdg
	(In-house & On Site)		10-100 HZ	±0.01%rdg
			0.1-1 k HZ	±0.01%rdg
			1-10 k HZ	±0.01%rdg
			10-50k HZ	±0.01%rdg
13	Resistance	CS Lab CP- 30	1 to 10 Ohm	±0.06%
	(In-house & On Site)		10> to 100 Ohm	±0.065%
			100> to 1k Ohm	±0.03%
			1k> to 10 K Ohm	±0.03%
Field:	Mechanical (volume - Pipe	ette)		
14	Micro-Pipettes	CS Lab CP- 05	10 µl	±0.008 μl
	(Single Channel, Fixed		20 µl	±0.008 μl
	(In-house)		10-100 μl	±0.015 μl
			20-200 μl	±0.020 μl
			100-1000 μl	±0.045 μl
			1-10 ml	±1.00 μl
15	Digital / Electronic Micro-	CS Lab CP- 05	10 µl	±0.008 μl
	(Single Channel, Fixed		20 µl	±0.008 μl
	Volume & Multichannel)		10-100 μl	±0.015 μl
			20-200 μl	±0.020 μl
			100-1000 μl	±0.045 μl
				Mun



SCOPE OF ACCREDITATION

CAB Name & Address:		CS LAB LIMITED				
		36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh				
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditation I Issued on: Valid until:	Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027		
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)		
			1-10 ml	±1.00 μl		
Field	: Mechanical (volume	- Dispensers)				
16	Dispensers	CS Lab CP- 16	0.2ml	±0.015μl		
	(vanspenser) (m-nou:	56)	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		
Field	: Mechanical (Volume	- Volumetric Glassware)				
17	Volumetric Glassware	e [/] CS Lab CP- 23	1ml-20ml	±0.0070ml		
	Burette Pipette /		200ml	±0.0035ml		
	Measuring Cylinder / Volumetric Flask /		500ml	±0.0061ml		
	Beakers / Jars / Other	r	2000ml	±0.0093ml		
	(In-house)		5000ml	±0.0098ml		
			20000ml	±0.1000ml		
Field	: Mechanical (Balance)				
IÖ	Micro Balances	CS Lab CP- 10	Up to 52g (0.01 mg)	±0.01mg		
	Analytical Balances (I	n-	Up to 120g (0.01 mg)	±0.12mg		
			Up to 220g (0.01 mg)	±0.15mg		
				10		

Vnun

Quality Manager



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:		CS LAB LIMITED			
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, BaISO/IEC 17025:2017Accreditation02.012.21Issued on:16 October 2024Valid until:0101		3angladesh n Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027	
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)	
19	Balance / Scale / Top	CS Lab CP- 10	Up to 100Kg (≤5g)	±4g	
	house & On Site)	-	Up to 500Kg (≤5g)	±8g	
			Up to 1000Kg (≤10g)	±20g	
Field:	Mechanical (Weight)				
20	Mass Weights	CS Lab CP- 09	1mg	±0.006mg	
	(III-house & On Sile)		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	
				Mun	



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:		CS LAB LIMITED				
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		36 Sonargaon Janapath, Se ISO/IEC 17025:2017 02.012.21 16 October 2024 01	ctor 12, Uttara, Dnaka, Bar Accreditation I Issued on: Valid until:	1gladesn Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027		
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement M range/value G a	Measurement Capabilities expressed as expanded uncertainty U (k=2)		
			5kg	±25mg		
			10Kg	±50mg		
			20kg	±100mg		
Field	Mechanical (Pressur	e)				
21	Pressure Gauge (Differential Pressure	CS Lab CP- 01	-0.29 to -0.073 psi	±0.00045 psi		
	Gauge, Manometer) (In-	n-	-0.73 to -0.035 psi	±0.00045 psi		
	house & On Site)		-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		
22	Barometric Pressure	CS Lab CP- 01	700-900 hPa	±4.5 hPa		
	Measurement		900-1100 hPa	±4.5 hPa		
	(In-house & On Site)					
23	Vacuum Pressure Gauge	CS Lab CP- 01	-0.8 to 0 bar	±0.04bar		
24	(In-house & On Site)					
24	Pressure Gauge /	CS Lab CP- 01	0-10 bar	±0.04bar		
	Pressure Sensor /		10-20 bar	±0.04bar		
	Transmitter					
25	(In-house & On Site) Pressure (High Pressure)	CS Lab CP- 01	0-50 bar	±0.0120 bar		
	, Pressure Measuring	-	50-100 bar	±0.0220 bar		
	Equipment		100-200 bar	±0.0420 bar		



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Sec	tor 12, Uttara, Dhaka, Banglade	∋sh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	(Pressure Gauge /		200-300 bar	±0.0980 bar
	Pressure Sensor /		300-400 bar	±0.0840 bar
	Transmitter)		400-500 bar	±0.1000 bar
	(In-house & On Site)		500-600 bar	±0.1200 bar
			600-700 bar	±0.1400 bar
26	Absolute Pressure	CS Lab CP- 01	0 to 5 bar a	±0.01 bar a
	(In-house & On Site)		5 to 10 bar a	±0.01 bar a
			10 to 15 bar a	±0.01 bar a
			15 to 20 bar a	±0.01 bar a
Field:	Mechanical (Time and F	Frequency)		
27	Stopwatches / Timers	CS Lab CP- 11	1s	±0.042s
	(In-house & On Site)		30s	±0.042s
			60s	±0.042s
			3600s	±1.0s
			86400s	±5.184s
Field	: Mechanical (Dimensior	n - Length)		
28	Vernier Caliper /	CS Lab CP- 18	0 to 100 mm	±0.00006 mm
	Digimatic Caliper		0 to 600 mm	±0.00096 mm
29	External Micrometer	CS Lab CP- 19	0 to 600 mm	±0.0525 mm
30	Plunger Dial Gauge (In-house & On Site)	CS Lab CP- 20	0 to 25 mm	±0.0505 mm
31	Feeler Gauge	CS Lab CP 33	Upto 1.00 mm	±0.0035 mm



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:		CS LAB LIMITED				
		36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh				
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditat Issued on: Valid until	ion Date: 15-Feb-2021 08 Feb 2024 : 14 Feb 2027		
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)		
	(In-house & On Site)					
32	Height Gauge (In-house & On Site)	CS Lab CP 34	Upto 600 mm	±0.030 mm		
33	Depth Gauge (In-house & On Site)	CS Lab CP 35	Upto 600 mm	±0.020 mm		
34	Microscope (Magnification) (In-house & On Site)	CS Lab CP 36	Upto 200X	±0.3 %		
35	Angle Gauge / Angle Protractor (In-house & On Site)	CS Lab CP 37	Upto 360°	±5 min of arc		
Field	: Mechanical (Acoust	ic)				
36	Sound (In-house & On Site)	CS Lab CP- 14	94 114	±0.5 dB ±0.5 dB		
Field	: Mechanical (Rotatio	n / Speed)				
37	Tachometer and RPN	I CS Lab CP- 12	0-10 rpm	±3.2 %rdg		
	(Contact)		10-100 rpm	±1.0 %rdg		
			100-500 rpm	±0.20 %rdg		
			500-1000 rpm	±0.20 %rdg		
			1000-3000 rpm	±0.20 %rdg		
				10		

Vnm



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:		CS LAB LIMITED				
		36 Sonargaon Janapath, Se	ector 12, Uttara, Dhaka, Ba	angladesh		
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditation Issued on: Valid until:	Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027		
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)		
			3000-5000 rpm	±0.10 %rdg		
			5000-6000 rpm	±0.10 %rdg		
38	Tachometer and RPM (Non-Contact)	CS Lab CP- 12	0-1000 rpm	±3.0 %rdg		
			1000-5000 rpm	±0.1 %rdg		
	(In-house & On Site)		5000-50000 rpm	±0.05 %rdg		
Field: 39	Mechanical (Optical) Light- Measure (In-ho) ^{JUSE} CS Lab CP- 15	Up to 100 Lux	±4.75% Lux		
& On Site)			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		
Field:	Mechanical (Fluid Fl	ow)				
40	Air Velocity (Anemometers / Air fl	CS Lab CP- 24 ow				
	meters)		0 to 2.5m/s	±5.9%rdg		
			2.5> to 5.0m/s	±5.1%rdg		
	(In-nouse & On Site)		5.0> to 10m/s	±6.8%rdg		
			10> to 15m/s	±6.8%rdg		
			15> to 30m/s	±8%rdg		
41	Air Flow Hood	CS Lab CP- 32	0> to 100 cfm	±3%rdg		
	(In-house)		100> to 1500 cfm	±3%rdg		
			1500> to 2000 cfm	±3%rdg		
			2000> to 2500 cfm	±3%rdg		
			2500> to 3000 cfm	±3%rdg		



SCOPE OF ACCREDITATION

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Sec	tor 12, Uttara, Dhaka, Banglade	esh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
42	Liquid Flow	CS Lab CP- 28	0 to 4.5 m3/h	±0.2%rdg
	(On Site)		4.5> to 9 m3/h	±0.2%rdg
			9> to 13.5 m3/h	±0.2%rdg
			13.5> to 18 m3/h	±0.2%rdg
			18> to 23 m3/h	±0.2%rdg
43	Gas Flow	CS Lab CP-29	0 to 4.5 m3/h	±0.2%rdg
	(On Site)		4.5> to 9 m3/h	±0.2%rdg
			9> to 13.5 m3/h	±0.2%rdg
			13.5> to 18 m3/h	±0.2%rdg
			18> to 23 m3/h	±0.2%rdg
44	Air Sampler	CS Lab CP- 06	100 l/m	±0.1%rdg
	(In-house)		200 l/m	±0.1%rdg
			180 l/m	±0.1%rdg
45	Compressed Air Sampler	CS Lab CP- 08	100 l/m	±0.1%rdg
	(In-house)		200 l/m	±0.1%rdg
46	Mass flow meter	CS Lab CP-31	0> to 28.3 L/m	±0.70 %
	(In-house & On Site)		28.3> to 50 L/m	±0.73 %
			50> to 100 L/m	±0.75 %
Field	Meter			
47	pH Meter (On Site)	CS Lab CP-26	4 to 12 pH	±0.3 %
			-200 to 200 mV	
48	Conductivity Meter (On Site)	CS Lab CP-25	0 to 1413 μS/cm	±0.6 %
				1 a

Vnm

Quality Manager



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Sect	or 12, Uttara, Dhaka, Banglade	esh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
49	ORP Meter (On Site)	CS Lab CP-27	271 & 475 mV	±0.5 %
50	Centrifuge / Roller Mixer / Digital Rotator (rpm)	CS Lab CP- 36	0-200 rpm	±3.0 %rdg
			200-4000 rpm	±0.1 %rdg
	(On Site)		4000-14500 rpm	±0.05 %rdg
	Centrifuge / Roller Mixer / Digital Rotator (time)	CS Lab CP- 36	1s	±0.042s
	,g.u., .c.u.c. ()		30s	±0.042s
	(On Site)		60s	±0.042s
			3600s	±1.0s
			86400s	±5.184s

Field: Electro Medical Device

51 Patient Monitor (In-house & Onsite)

Heart Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 39	30 bpm to 300 bpm	1.61 bpm to 8.00 bpm
NIBP	Using Vital Sign Simulator by Simulation Method CS Lab CP- 39	30 mmHg to 240 mmHg	2.07 mmHg to 4.75 mmHg
Pulse Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 39	30 bpm to 240 bpm	1.61 bpm to 7.85 bpm
Respiration Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 39	10 brpm to 100 brpm	2.96 brpm to 9.19 brpm

Quality Manager



SCOPE OF ACCREDITATION

CAB Name & Address:	CS LAB LIMITED				
	36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh				
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021		
Certificate Number:	02.012.21	Issued on:	08 Feb 2024		
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027		
Amendment no:	01				

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	SpO2	Using Vital Sign Simulator by Simulation Method CS Lab CP- 39	70% to 100%	4.51% to 4.74%
52	Pulse Oximeter (In-hous	e & Onsite)		
	Pulse Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 41	30 bpm to 240 bpm	1.61 bpm to 7.85 bpm
	SpO2	Using Vital Sign Simulator by Simulation Method CS Lab CP- 41	70% to 100%	4.51% to 4.74%
53	BP Apparatus (Digital & Manual) (In-ho	use & Onsite)		
	Static Pressure (Systolic)	Using Vital Sign Simulator by Simulation Method CS Lab CP- 42	30 mmHg to 240 mmHg	2.07 mmHg to 4.75 mmHg
	Dynamic Pressure (Diastolic)	Using Vital Sign Simulator by Simulation Method CS Lab CP- 42	30 mmHg to 240 mmHg	2.07 mmHg to 4.75 mmHg
	Heart Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 42	30 bpm to 300 bpm	1.61 bpm to 8.00 bpm
54	ECG Machine (In-house	& Onsite)		
	ECG Machine-Heart Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 40	30 bpm to 300 bpm	1.61 bpm to 8.00 bpm
	Amplitude	Using Vital Sign Simulator by Simulation Method CS Lab CP- 40	0.5 mV to 5 mV	0.3 mV to 0.35 mV

Quality Manager



SCOPE OF ACCREDITATION

CAB Name & Address:		CS LAB LIMITED				
		36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh				
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditation Date: 15-Feb-2 Issued on: 08 Feb 2 Valid until: 14 Feb 2		15-Feb-2021 08 Feb 2024 14 Feb 2027	
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measu Capab as exp uncert	rement ilities expressed anded ainty U (k=2)	
55	NIBP Monitor (In-hou	use & Onsite)				
	Systolic and Diastolic	Using Vital Sign Simulator by Simulation Method CS Lab CP- 44	30 mmHg to 240 mmHg	2.07 mm	Hg to 4.75 mmHg	
	Pulse Rate	Using Vital Sign Simulator by Simulation Method CS Lab CP- 44	30 bpm to 240 bpm	1.61 bj	om to 7.85 bpm	
56	Infusion Pump & Sy	Syringe Pump (In-house & Onsite)				
	Flow Rate	Using Infusion Device Analyzer by Direct Method CS Lab CP- 45	1 ml/hr to 1000 ml/hr	0.06 ml/	hr to 23.64 ml/hr	
	Occlusion Detection Pressure	Using Infusion Device Analyzer by Direct Method CS Lab CP- 45	6.9 kPa to 310 kPa	3.45 k	Pa to 4.96 kPa	
	Volume	Using Infusion Device Analyzer by Direct Method CS Lab CP- 45	1 ml to 400 ml	0.06	ml to 9.26 ml	
57	Ventilator (Onsite)					
	O2 Concentration	Using Gas Flow Analyzer by Direct Method CS Lab CP- 49	21% to 100%	2.4	4% to 3.2%	
	Positive End/ Expirato Pressure, Positive Inspiratory Pressure	Dry Using Gas Flow Analyzer by Direct Method CS Lab CP- 49	0.098 kPa to 1.96 kPa	0.03 k	Pa to 0.07 kPa	
	Respiratory Rate	Using Gas Flow Analyzer by Direct Method CS Lab CP- 49	8 brpm to 40 brpm	0.96 brj	om to 4.21 brpm	

Quality Manager



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:	CS LAB LIMITED			
	36 Sonargaon Janapath, Sector 12, U	ttara, Dhaka, Banglade	sh	
Accreditation Standard:	ISO/IEC 17025:2017	Accreditation Date:	15-Feb-2021	
Certificate Number:	02.012.21	Issued on:	08 Feb 2024	
Last Amended on:	16 October 2024	Valid until:	14 Feb 2027	
Amendment no:	01			

S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
	Ti/ Te/ I:E Ratio	Using Gas Flow Analyzer by Direct Method CS Lab CP- 49	0.5 s to 5.5 s	0.1 s to 0.2 s
	Tidal Volume	Using Gas Flow Analyzer by Direct Method CS Lab CP- 49	10 ml to 1500 ml	0.51 ml to 75.54 ml
58	Anesthesia Machine (O	nsite)		
	Flow Test	Using Gas Flow Analyzer by Direct Method CS Lab CP- 46	1 lpm to 20 lpm	0.07 lpm to 1.22 lpm
	O2 Concentration	Using Gas Flow Analyzer by Direct Method CS Lab CP- 46	21% to 100%	2.4% to 3.2%
	Positive End Expiratory Pressure	Using Gas Flow Analyzer by Direct Method CS Lab CP- 46	0.098 kPa to 2.94 kPa	0.03 kPa to 0.07 kPa
	Respiratory Rate	Using Gas Flow Analyzer by Direct Method CS Lab CP- 46	8 brpm to 40 brpm	0.96 brpm to 4.21 brpm
	Ti/ Te/I:E Ratio	Using Gas Flow Analyzer by Direct Method CS Lab CP- 46	0.5 s to 5.5 s	0.1 s to 0.2 s
	Tidal Volume	Using Gas Flow Analyzer by Direct Method CS Lab CP- 46	10 ml to 1500 ml	0.51 ml to 75.54 ml

59 **Nebulizer** (In-house & Onsite)

Quality Manager



SCOPE OF ACCREDITATION

CAB Name & Address:		CS LAB LIMITED			
		36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh			
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditatio Issued on: Valid until:	n Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027	
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)	
	Flow Test	Using Gas Flow Analyzer by Direct Method CS Lab CP- 47	1 lpm to 20 lpm	0.07 lpm to 1.22 lpm	
	Pressure	Using Gas Flow Analyzer by Direct Method CS Lab CP- 47	1 kPa to 300 kPa	0.13 kPa to 4.67 kPa	
60	O2 Flowmeter/ O2 C	oncentrator/ HFNC (In-hous	e & Onsite)		
	Flow Test	Using Gas Flow Analyzer by Direct Method CS Lab CP- 48	1 lpm to 60 lpm	0.07 lpm to 3.67 lpm	
	O2 Concentration	Using Gas Flow Analyzer by Direct Method CS Lab CP- 48	21% to 100%	2.4% to 3.2%	
	Temperature	Using Gas Flow Analyzer by Direct Method CS Lab CP- 48	25ºC to 40 ºC	1.32 ºC	
61	BiPAP (In-house & O	nsite)			
	Breath Rate	Using Gas Flow Analyzer by Direct Method CS Lab CP- 50	8 brpm to 40 brpm	0.96 brpm to 4.21 brpm	
	Expiratory Positive Airway Pressure	Using Gas Flow Analyzer by Direct Method CS Lab CP- 50	0.098 kPa to 2.94 kPa	0.03 kPa to 0.07 kPa	
	Inspiratory Positive Airway Pressure	Using Gas Flow Analyzer by Direct Method CS Lab CP- 50	0.098 kPa to 2.94 kPa	0.03 kPa to 0.07 kPa	

Quality Manager



SCOPE OF ACCREDITATION

(For Calibration Laboratory)

CAB Name & Address:		CS LAB LIMITED				
		36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh				
Accreditation Standard: Certificate Number: Last Amended on: Amendment no:		ISO/IEC 17025:2017 02.012.21 16 October 2024 01	Accreditatior Issued on: Valid until:	n Date: 15-Feb-2021 08 Feb 2024 14 Feb 2027		
S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)		
62	Electrical Safety Test Medical Device - Insu Resistance (In-house Site)	t of Ilation Using Electrical Safety Analyzer by Direct Meth & On CS Lab CP- 43	/ od 1 MΩ to 100 MΩ	0.25 MΩ to 8.9 MΩ		
63	Electrical Safety Test Medical Device - Leal Current (In-house & O Site)	t of kage Using Electrical Safety n Analyzer by Direct Meth CS Lab CP- 43	/ od 10 μA to 2 mA	1.66 μA to 30 μA		
64	Electrical Safety Test Medical Device - Prot Earth Resistance (In-h & On Site)	t of Ecctive Using Electrical Safety Analyzer by Direct Meth Ouse CS Lab CP- 43	/ od 0.05 Ω to 2 Ω	0.02 Ω to 0.08 Ω		
65	Electrical Safety Test Medical Device- Main Voltage Live-Neutral (In-house & On Site)	t of Using Electrical Safety Analyzer by Direct Meth CS Lab CP- 43	/ od 180 V to 264 V	4.62 V to 6.67 V		
	Live-Earth (In-house & On Site)	Using Electrical Safety Analyzer by Direct Metho CS Lab CP- 43	d 180 V to 264 V	4.62 V to 6.67 V		
	Neutral- Earth (In-house & On Site)	Using Electrical Safety Analyzer by Direct Meth CS Lab CP- 43	/ od 0 V to 2 V	01 V to 0.4 V		

-----End------

Quality Manager