



# ACCREDITATION CERTIFICATE

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

**CS LAB LIMITED, INSPECTION SERVICES**

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

This is to certify that this

**Inspection Body(Type-A)**

is accredited in accordance with the international standard

**ISO/IEC 17020:2012**

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

Certificate Number : **05.014.21**  
Accreditation Date : **28 October 2021**  
Date of Issuance : **27 October 2024 (1st Renewal)**  
Date of Expiration : **27 October 2027**



*[Signature]*  
**27.10.2024**  
**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 Inspection Bodies)

**CAB Name & Address:** CS Lab Limited, Inspection Services  
**Accreditation Standard:** ISO/IEC 17020:2012  
**Certificate Number:** 05.014.21  
**Last Amended on:** -  
**Amendment no:** -  
**Types :** A

**Accreditation Date:** 28 October, 2021  
**Issued on:** 27 October, 2024  
**Valid until:** 27 October, 2027

Head Office or primary location		Additional Locations (If different from Head Office)			
36 Sonargaon Janapath, Sector 12, Uttara Dhaka, Bangladesh		1	36 Sonargaon Janapath, Sector 12, Uttara, Dhaka, Bangladesh		
		2	N/A		
		3	N/A		

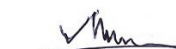
Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
A	Service	Air Velocity Inspection	0 to 30 m/s (Velocity Method)	On Site	ISO 14644-3:2019; B2:2
			42 to 4250 m³/h (Flow hood Method)	On Site	ISO 14644-3:2019, B.2.3
		Air Change Per Hour (ACPH) Inspection (Air Velocity & Air Volume calculation method)	i) For Class A; ACPH Limit 35-70 ii) For Class B; ACPH Limit 25-40 iii) For Class C; ACPH Limit 15-25 iv) For Class D; ACPH Limit 5-15	On Site	ISO 14644-3:2019, B:2
		Filter Integrity Inspection (HEPA/ULPA Filter Media & Gasket leak Test)	i) Maximum particle Concentration of 0.01% for filters that can be scanned. ii) Maximum particle concentration of 0.005% for filters that cannot be scanned.	On Site	ISO 14644-3:2019; B:7

  
Quality Manager

Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
A	Service	Airborne Particle Count Cleanliness Inspection	i) For Class 'A'; Maximum Concentration limits of 0.5µm & 5.0 µm are 3,520 & e,d,f. ii) For Class 'B'; Maximum Concentration limits of 0.5µm & 5.0 µm are 35,200 & 293 iii) For Class 'C'; Maximum Concentration limits of 0.5µm & 5.0 µm are 352,000 & 2930 iv) For Class 'D'; Maximum Concentration limits of 0.5µm & 5.0 µm are 352,0000 & 29300	On Site.	ISO 14644-1:2015
		Room Recovery Inspection	i) For Class B, Initial and Target Particle Concentration of 0.5µm sized Particles are considered as ≥352,000 and ≤3,520 Particles/m <sup>3</sup> respectively ii) For Class C, Initial and Target Particle Concentration of 0.5µm sized Particles are considered as ≥35,200,000 and ≤352,000 Particles/m <sup>3</sup> respectively. iii) For Class D, Initial and Target Particle Concentration of 0.5µm sized Particles are considered as ≥35,200,000 and ≤35,20,000 Particles/m <sup>3</sup> respectively.	On Site	ISO 14644-3:2019; B:4
		Airflow Visualization Inspection (Airflow pattern check & visual record.)	Air Visualization by Tracer gas injection method	On Site	ISO 14644-3:2019; B:3
		Room Pressurization Inspection	-50 to 125 Pa (Room differential pressure measurement)	On Site	ISO 14644-3:2019; B:1

  
Quality Manager

Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
A	Service	Light Level Inspection (Light intensity & uniformity measurement)	0.00 lux to 150000.00 lux	On Site	NEBB:2009 (SECTION 11:11.4)
		Sound Level Inspection (Sound level intensity measurement)	40 to 130dB	On Site	NEBB:2009 (SECTION 11:11.5)
		Room Temperature & Humidity Mapping	-20...70 °C / 0...100 %RH	On Site	ISO 14644-3:2019
		Temperature & Humidity Mapping (Warehouse & Cold Room)	-20...70 °C / 0...100 %RH	On Site	WHO Technical reports, Series no. 961.2011, anx-9
		CO2 Level Inspection :	0 ... 20 %	On Site	In-House SOP (CS Lab-IP 14)
		UV Light Intensity Inspection	1 uW/cm <sup>2</sup> ~ 40.00mW/cm <sup>2</sup>	On Site	In-House SOP (CS Lab-IP 15)
A	Service	Negative Pressure Isolation Room Inspection,	Room Differential Pressure Inspection: - 80 pa to +80 Pa	On Site	In-House SOP (CS Lab-IP 16) & Australasian Health Facility Guidelines Isolation Rooms – Engineering and Design Requirements (Revision 1.0 1 February 2017)
			Air Change rate Inspection : 6-20 ACPH	On Site	
			Room Temp & Humidity Inspection : 18°C to 30°C/ 10-90% RH	On Site	
			HEPA Filter Leak Inspection : Concentration of 0.01% for filters that can be scanned and 0.005% which can't be scanned.	On Site	
			Air Visualization by Traces particle (Smoke Visualization Inspection)	On Site	
		Critical Care Unit, ICU, NICU, BMT Unit and OT Inspection	Room Differential Pressure Inspection: - 80 pa to +80 Pa	On Site	In-House SOP (CS Lab-IP 17) & Guide Book to NABH Standards for Hospitals



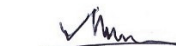
Quality Manager

Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
A	Service	Biosafety Level 1, 2,3 & 4 Containment Laboratory & Medical Laboratory Inspection	Room Differential Pressure Inspection: - 80 pa to +80 Pa	On Site	In-House SOP (CS Lab-IP 18) &WHO, CDC, BMBL Guideline
			Air Change rate Inspection : 6-20 ACPH	On Site	
			Room Temp & Humidity: 18 °C to 30 °C/ 10-90% RH	On Site	
			HEPA Filter Leak Inspection: Concentration of 0.01% for filters that can be scanned and 0.005% which can't be scanned.	On Site	
			Air Visualization by Traces particle	On Site	
A	Service	Biosafety Cabinet Field Safety Performance Inspection	Inflow Velocity Measurement : 0.20 -0.65 m/s	On Site	NSF/ANSI 49-2016 & EN 12469:2000
			Down flow Velocity Measurement : 0.26 – 0.54 m/s	On Site	NSF/ANSI 49-2016 & EN 12469:2000
			Down flow & Exhaust Filter (HEPA & ULPA) Integrity Inspection:  i) Maximum particle Concentration of 0.01% for filters that can be scanned. ii) Maximum particle concentration of 0.005% for filters that cannot be scanned.	On Site	NSF/ANSI 49-2016 & EN 12469:2000
			Airflow pattern check & Air Visualization Inspection : By Tracer gas injection & image recording	On Site	NSF/ANSI 49-2016 & EN 12469:2000
			Site Installation Assessment : Sash Height level inspection & Alarm System	On Site	NSF/ANSI 49-2016 & EN 12469:2000



Quality Manager

Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
A	Service		Light Intensity measurement : $\geq 500$ Lux	On Site	NSF/ANSI 49-2016 & EN 12469:2000
			Sound Level Inspection : Up to 90 dB	On Site	NSF/ANSI 49-2016 & EN 12469:2000
		Laminar Airflow Cabinet Field performance inspection	Air velocity & Uniformity Measurement : 0.26 – 0.54 m/s	On Site	ISO 14644-3 & EN 12469:2000
			Particle Count for Cleanliness Inspection : For Class 'A'; Maximum Concentration limits of 0.5 $\mu$ m & 5.0 $\mu$ m are 3,520 & e,d,f. For Class 'B'; Maximum Concentration limits of 0.5 $\mu$ m & 5.0 $\mu$ m are 35,200 & 293	On Site	ISO 14644-1 & EN 12469:2000
			Filter (HEPA & ULPA) Integrity Inspection: Maximum particle Concentration of 0.01% for filters that can be scanned.	On Site	ISO 14644, EN 12469 & IEST-RPCC034.2
			Airflow pattern check & Air Visualization Inspection : By Tracer gas injection & image recording	On Site	ISO 14644 & EN 12469
		Fume hood field performance inspection	Face Velocity Measurement : $\geq 0.40$ m/s	On Site	ASHRAE 110:2016
			Airflow pattern Inspection : Air Visualization by Tracer gas injection & image recording	On Site	ASHRAE 110:2016
		Dynamic Pass Box field performance inspection	Air Velocity Inspection : 0 to 30 m/s	On Site	EN 12469 , ISO 14644-1 & IEST-RP-CC002.2 Guideline
			HEPA Filter Leak Inspection: Concentration of 0.01% for filters	On Site	



Quality Manager



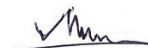
Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
A	Service		Differential Pressure Inspection : 0 to 30pa	On Site	
			UV Intensity Illumination Inspection : 1 $\mu\text{W}/\text{cm}^2 \sim 40.00\text{mW}/\text{cm}^2$	On Site	
		Autoclave field performance inspection (Thermal Mapping Inspection / Pressure inspection)	Ambient +5 to 140 °C	On Site	In-House SOP (CS Lab-IP 23)
		Thermal Mapping Inspection for field performance of Freezer, Refrigerator, Ultra low Freezer, Stability Chamber, Environmental / Climate Chamber, BOD Incubator, Incubator, CO2 Incubator and Refrigerator van.	-90 °C to +70 °C	On Site	In-House SOP (CS Lab IP-24)
		Thermal Mapping Inspection for field performance of Dry Heat Sterilizer, Tunnel, Vacuum Oven, Oven and Muffle Furnace	Ambient +5 to 1500 °C	On Site	In-House SOP (CS Lab IP-25)
		Water Quality inspection	pH level inspection : 4 to 14 pH	On Site	In-House SOP (CS Lab IP-26)
			purified water (PW) & Water for Injection (WFI) conductivity inspection : 0 to 25 $\mu\text{S}/\text{cm}$	On Site	In-House SOP (CS Lab IP-27)
			Potable water conductivity inspection : 30 to 2000 $\mu\text{S}/\text{cm}$	On Site	
		Flow Velocity	Gases flow inspection:	On Site	In-House SOP (CS Lab IP-28)



Quality Manager

Type (A,B,C)	Inspection Category (Product, Process, Services or Installation)	Inspection Field (and sub-fields)	Range of inspections	Stage of inspection	Inspection requirements or criteria
			0.01 to 35 m/s @ -30 to 130 °C		
			Liquid flow inspection :0.01 to 25 m/s @ -40 to 200 °C	On Site	

\*\*\*END\*\*\*



Quality Manager