GLOBAL ACCEPTANCE

BAB

BANGLADESH ACCREDITATION BOARD

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

28/B, 29/A, 29/B, LEVEL-7, KAKRAIL

VIP ROAD, DHAKA-1000, 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	:	**28 October 2021**
Date of Expiration	:	**27 October 2024**

CERT. NO. 05.014.21

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BANGLADESH ACCREDITATION BOARD

Accredited for ISO/IEC 17020:2012

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ACCEPTANCE

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.

BANGLADESH ACCREDITATION BOARD (BAB)

91, Motijheel C/A, Dhaka-1000
Tel: +880-2-9513221
Fax: +880-2-9513222
Email:info@bab.org.bd
Web: www.bab.org.bd

SCOPE OF ACCREDITATION

(For Inspection Bodies)

CAB Name & Address: **CS Lab Limited, Inspection Services**
Navana Obaid Eternia, 28/B, 29/A,29/B, Level-7,
Kakrail VIP Road, Dhaka-1000, Bangladesh.

Accreditation Standard:	ISO/IEC 17020:2012	**Accreditation Date:**	28 October, 2021
Certificate Number:	05.014.21	**Issued on:**	28 October, 2021
Last Amended on:	NA	**Valid until:**	27 October, 2024
Amendment no:	NA		
Types :	NA		

Head Office or primary location	Additional Locations (If different from Head Office)	
Navana Obaid Eternia, 28/B, 29/A,29/B, Level-7 Kakrail VIP Road, Dhaka-1000, Bangladesh	1	36 Sonargaon Janapath (2nd floor), Uttara, Dhaka -1231, 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 m^3/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

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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^3 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^3 respectively. iii) For Class D, Initial and Target Particle Concentration of 0.5µm sized Particles are considered as ≥35, 200,0000 and ≤35, 20,000 Particles/m^3 respectively.	On Site	ISO 14644-3:2019; B:4
		Airflow Visualization Inspection	Air Visualization by Tracer gas injection method	On Site	ISO 14644-3:2019; B:3

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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
		(Airflow pattern check & visual record.)			
		Room Pressurization Inspection	-50 to 125 Pa (Room differential pressure measurement)	On Site	ISO 14644-3:2019; B:1
		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 ℃ / 0…100 %RH	On Site	ISO 14644-3:2019
		Temperature & Humidity Mapping (Warehouse & Cold Room)	-20…70 ℃ / 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/cm² ~ 40.00mW/cm²	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℃ to 30℃/ 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	

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A	Service		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
		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℃ to 30℃/ 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	
		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

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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
			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
			Light Intensity measurement : ≥ 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 EN 12469:2000
			Particle Count for Cleanliness Inspection : For Class 'A'; Maximum Concentration limits of 0.5µm & 5.0 µm are 3,520 & e,d,f. For Class 'B'; Maximum Concentration limits of 0.5µm & 5.0 µm 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

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		Fume hood field performance Inspection	Face Velocity Measurement : ≥ 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
A	Service	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	
			Differential Pressure Inspection : 0 to 30pa	On Site	
			UV Intensity Illumination Inspection : 1 uW/cm² ~ 40.00mW/cm²	On Site	
		Autoclave field performance inspection (Thermal Mapping Inspection &/ Pressure inspection)	Ambient +5 to 140℃	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℃ to +70 ℃	On Site	In-House SOP (CS Lab IP-24)
		Thermal Mapping Inspection for field performance of	Ambient +5 to 1500℃	On Site	In-House SOP (CS Lab IP-25)

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		Dry Heat Sterilizer, Tunnel, Vacuum Oven, Oven and Muffle Furnace			
		Water Quality inspection	pH level inspection : 4 to 14 pH	On Site	In-House SOP (CS Lab IP-26)
A	Service		purified water (PW) & Water for Injection (WFI) conductivity inspection : 0 to 25 µS/cm	On Site	In-House SOP (CS Lab IP-27)
			Potable water conductivity inspection : 30 to 2000 µS/cm	On Site	
			Industrial Waste water conductivity inspection : 30 to 55000 µS/cm	On Site	
		Flow Velocity	Gases flow inspection: 0.01 to 35 m/s @ -30 to 130 ℃	On Site	In-House SOP (CS Lab IP-28)
			Liquid flow inspection :0.01 to 25 m/s @ -40 to 200 ℃	On Site	

END

Quality Manager