



# ACCREDITATION CERTIFICATE

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

**Waffen Research Laboratory Ltd.**

**167/24, Matikata, ECB Chattar**

**Dhaka Cantonment, Dhaka-1206, Bangladesh**

This is to certify that this

**Testing Laboratory**

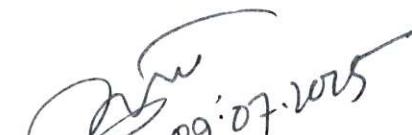
is accredited in accordance with the international standard

**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 : **01.055.19**  
Accreditation Date : **15 March 2019**  
Date of Issuance : **09 July 2025**  
Date of Expiration : **14 March 2028**



  
**M. A. Kamal Billah**  
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 Testing Laboratory)

<b>CAB Name &amp; Address:</b>	WAFFEN Research Laboratory Limited 167/24, Matikata, ECB Chattar, Dhaka Cantonment, Dhaka-1206, Bangladesh	<b>Accreditation Standard:</b>	ISO/IEC 17025:2017	<b>Accreditation Date:</b>	15 March 2019
<b>Certificate Number:</b>	01.055.19	<b>Issued on:</b>		<b>Valid until:</b>	09 July 2025
<b>Last Amended on:</b>	NA			<b>Valid until:</b>	14 March 2028
<b>Amendment no:</b>	NA				

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Microbiological</b>				
01.	Food & Beverage	Total Plate Count	BAM, Chapter-3, 2001	10 CFU/ml or gm
02.	Food and Animal Feed	Total Coliform count	ISO 4832:2006	1 CFU/ml or gm
03.	Food and Animal Feed	Yeast & Mold Count	ISO 7954:1987(E)	10 CFU/ml or gm
04.	Drinking Water	<i>E. coli</i>	ISO 9308-1:2014	Present or absent per 250 ml
05.	Food and Animal Feed	<i>Salmonella</i> spp.	ISO 6579:2002(E)	Present or absent per 25 gm
06.	Food & Beverage	<i>Staphylococcus aureus</i>	BAM, Chapter-12:2016	1 MPN/g
07.	Food and Animal Feed	<i>E. coli</i>	ISO 7251:2005	Present or absent per 25 gm
<b>Field: Chemical</b>				
08.	Carbonated Beverages	Determination of Benzoic Acid	AOAC 979.08	1 mg/L to 1000 mg/L
09.	Carbonated Beverages	Determination of Caffeine	AOAC 979.08	1 mg/L to 1000 mg/L
10.	Cereal Food	Determination of Moisture content	AOAC 925.10	0.1% to 90%
11.	Cereal, Sugar & Sugar Product	Determination of Total Sugar content	WFN/SOP/105	0.7% to 100%
12.	Oils & Fats	Determination of Peroxide value	AOAC 965.33	1 milliequivalent/kg to 90 milliequivalent/kg
13.	Dairy Product	Determination of Tetracycline	WFN/SOP/102	0.06 mg/L to 100 mg/L
14.	Dairy Product	Determination of Enrofloxacin	WFN/SOP/103	0.09 mg/L to 100 mg/L
15.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean, broccoli, and tomato)	Pesticide Residue (4,4'-DDT)	WFN/SOP/150	10 µg/kg to 500 µg/kg
16.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean,	Pesticide Residue (Chlorpyrifos)	WFN/SOP/150	10 µg/kg to 500 µg/kg

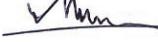
Quality Manager

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	broccoli, and tomato)			
17.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean, broccoli, and tomato)	Pesticide Residue (Cypermethrin)	WFN/SOP/150	10 µg/kg to 500 µg/kg
18.	Vegetables (eggplant, cabbage, cauliflower, hyacinth bean, broccoli, and tomato)	Pesticide Residue (Methoxychlor)	WFN/SOP/150	10 µg/kg to 500 µg/kg
19.	Water	pH value	WFN/SOP/161	0 to 14
20.	Water	Electrical Conductivity	WFN/SOP/162	0.01 µS/cm to 5000 µS/cm
21.	Water	Total Dissolved Solid (TDS)	APHA 2540 C	1 mg/l to 20000 mg/L
22.	Water	Turbidity	APHA 2130 B	0.01 NTU to 1000 NTU
23.	Water	Total Suspended Solid (TSS)	APHA 2540 D	0.5 mg/l to 5000 mg/L
24.	Water	Total Solid (TS)	APHA 2540 B	0.5 mg/l to 5000 mg/L
25.	Water	Chloride Content	ISO 9297	1 mg/l to 20000 mg/L
26.	Water	Total Hardness	USEPA 130.2	1 mg/l to 5000 mg/L
27.	Water	Dissolved Oxygen (DO)	USEPA 360.1	0 mg/l to 60 mg/L
28.	Water	Oil & Grease	IS 3025 (Part 39): 1991	1 mg/l to 5000 mg/L
29.	Water	Nitrite	APHA 4500-NO <sub>2</sub> -B	50 to 1000 µg NO <sub>2</sub> —N/L
30.	Water	Nitrate	APHA 4500-NO <sub>3</sub> -B	10 to 1000 µg NO <sub>3</sub> —N/L
31.	Water	Lead, Cadmium, Chromium, Iron and Magnesium	APHA 3111B	0.02 mg/L to 100 mg/L
32.	Water	Arsenic	APHA 3114C	0.002 mg/L to 100 mg/L
33.	Foods (Cereal, Biscuit, Milk)	Total Fat	GB 5009.6-2016	0.1% to 100%
34.	Foods (Cereal, Biscuit, Oil & fats, Milk)	Fatty Acid Composition, Saturated Fat, Poly Unsaturated Fat, Mono Unsaturated Fat, Trans Fat	GB 5009.168-2016	0.01% to 100%
35.	Foods (Cereal, Biscuit, Milk)	Cholesterol	GB 5009.128-2016	10 mg/kg or mg/L
36.	Foods (Cereal,	Sodium & Potassium	GB 5009.91-2017	Na= 0.8mg/100g

  
 Quality Manager

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	Biscuit, Milk)			K= 0.2mg/100g
37.	Foods (Cereal, Biscuit, Milk)	Iron	GB 5009.90-2016	0.75 mg/kg or mg/L
38.	Foods (Cereal, Biscuit, Milk)	Zinc	GB 5009.14-2017	1 mg/kg or mg/L
39.	Foods (Cereal, Biscuit, Milk)	Calcium	GB 5009.92-2016	0.5 mg/kg or mg/L
40.	Foods (Cereal, Biscuit, Milk)	Total Carbohydrate	IS 1656:2022, Annex-C (AOAC 986.25)	0.5% to 100%
41.	Foods (Cereal, Biscuit, Milk)	Iodine Content	GB 5009.267-2020	0.07 mg/kg or mg/L
42.	Oil & Fats	Iodine Value	AOAC 920.159	3 - 200
43.	Oil & Fats	Free Fatty acid (as Lauric Acid, Palmitic Acid and Oleic Acid) and Acid Value	AOCS Cd 3d-63	FFA= 0.1% Acid Value= 0.2 mg KOH/g
44.	Foods (Cereal, Biscuit, Milk)	Protein	GB 5009.5-2016	0.1% to 100%
45.	Foods (Cereal, Biscuit, Milk)	Determination of Ash (Total Ash, Water Soluble Ash, Water Insoluble Ash and Acid Insoluble Ash)	GB 5009.4 - 2016	0.1% to 100%
46.	Foods for infant and young children, milk and milk products	Determination of Lactose and Sucrose	GB 5413.5 - 2010	0.4% to 100%
47.	Foods (Cereal, Biscuit, Milk)	Aflatoxin	WFN/SOP/109	0.2 µg/kg
48.	Foods (Cereal, Biscuit, Milk)	Vitamin A & E	GB 5009.82-2016	30 µg/100g
49.	Foods (Cereal, Biscuit, Milk)	Copper	GB 5009.13-2017	0.5 mg/kg or mg/L

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



Quality Manager