



ACCREDITATION CERTIFICATE

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

Analytical Chemistry Laboratory

Chemistry Division, Atomic Energy Centre

4 Kazi Nazrul Islam Avenue, Ramna, Dhaka-1000, 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 : **01.018.15**
Accreditation Date : **01 March 2015**
Date of Issuance : **06 May 2025 (4th Renewal)**
Date of Expiration : **28 February 2027**



[Signature]
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 Testing Laboratory)

CAB Name & Address: Analytical Chemistry Laboratory
Chemistry Division, Atomic Energy Centre
4, Kazi Nazrul Islam Avenue, Shahbag, Dhaka-1000, Bangladesh

Accreditation Standard: ISO/IEC 17025:2017

Accreditation Date: 01 March 2015

Certificate Number: 01.018.15

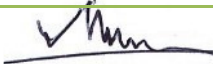
Issued on: 06 May 2025

Last Amended on: N/A

Valid until: 28 February 2027

Amendment no: 01

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Chemical Testing				
1	Water	Lead (Pb) Cadmium (Cd) Chromium (Cr) Copper (Cu) Iron(Fe) Manganese (Mn) Zinc (Zn) Nickel (Ni) Cobalt (Co) Calcium (Ca) Magnesium (Mg) Sodium (Na) Potassium (K)	ACL-TMSOP-04* Flame-AAS	0.5-2.5 mg/L/ 8 µg/L 0.1-1.0 mg/L/ 1 µg/L 0.25-2.0 mg/L/ 11 µg/L 0.2-2.0 mg/L/ 5 µg/L 1.0-4.0 mg/L/ 15 µg/L 0.2-2.0 mg/L/ 5 µg/L 0.1-0.4 mg/L/ 8 µg/L 0.5-6.0 mg/L/ 8 µg/L 0.2-2.0 mg/L/ 5 µg/L 1.0-10 mg/L/ 0.15 mg/L 0.1-0.4 mg/L/ 0.03 mg/L 0.1-0.8 mg/L/ 0.03 mg/L 0.2-2.0 mg/L/ 0.05 mg/L
2	Water	Arsenic (As)	ACL-TMSOP-05* Hydride Generation-AAS	1.0-10 µg/L/ 2 µg/L
3	Water	Mercury (Hg)	ACL-TMSOP-06* Cold Vapor-AAS	2.5-20 µg/L / 0.3 µg/L
4	Fish	Lead (Pb) Cadmium (Cd) Chromium (Cr)	ACL-TMSOP-01* Graphite Furnace-AAS	15-75 µg/L / 0.06 mg/Kg 1.0-6.0 µg/L / 0.01 mg/ Kg 4-20 µg/L / 0.05 mg/ Kg
5	Fish	Arsenic (As)	ACL-TMSOP-02* Hydride Generation-AAS	1.0-10 µg/L / 0.08 mg/ Kg
6	Fish	Mercury (Hg)	ACL-TMSOP-03* Cold Vapor-AAS	2.5-20 µg/L / 0.02mg/ Kg
7	Shrimp	Lead (Pb) Cadmium (Cd) Chromium (Cr)	ACL-TMSOP-01* Graphite Furnace-AAS	15-75 µg/L / 0.1 mg/ Kg 1.0-6.0 µg/L / 0.06 mg/ Kg 4.0-20 µg/L / 0.08 mg/ Kg
8	Shrimp	Arsenic (As)	ACL-TMSOP-02* Hydride Generation-AAS	1.0-10 µg/L / 0.1 mg/ Kg
9	Shrimp	Mercury (Hg)	ACL-TMSOP-03* Cold Vapor-AAS	2.5-20 µg/L / 0.03 mg/ Kg
10	Feed	Lead (Pb) Cadmium (Cd) Chromium (Cr)	ACL-TMSOP-07* Graphite Furnace-AAS	15-75 µg/L / 0.12 mg/ Kg 1.0-6.0 µg/L / 0.02 mg/ Kg 4-20 µg/L / 0.03 mg/ Kg
11	Feed	Arsenic (As)	ACL-TMSOP-08* Hydride Generation-AAS	1.0-10 µg/L / 0.02 mg/ Kg


Quality Manager

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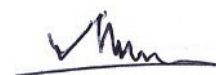
Valid until: 28 February 2027

Amendment no: 01

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
12	Milk	Lead (Pb)	ACL-TMSOP-10* Graphite Furnace-AAS	15-75 µg/L / 0.006 mg/kg
13	Foodstuffs	Lead (Pb) Chromium (Cr) Copper (Cu) Iron(Fe) Manganese (Mn) Zinc (Zn) Nickel (Ni) Cobalt (Co)	ACL-TMSOP-18* Flame-AAS	0.5-2.5 mg/L / 0.27mg/kg 0.25-2.0 mg/L / 0.15 mg/kg 0.2-2.0 mg/L / 0.04 mg/kg 1.0-4.0 mg/L / 0.25 mg/kg 0.2-2.0 mg/L / 0.1 mg/kg 0.1-0.4 mg/L / 0.24 mg/kg 0.5-6 mg/L / 0.53 mg/kg 0.2-2.0 mg/L / 0.05 mg/kg
14	Foodstuffs	Cadmium (Cd)	ACL-TMSOP-19* Graphite Furnace-AAS	1-6 µg/L / 1 µg/kg
15	Foodstuffs	Arsenic (As)	ACL-TMSOP-20* Hydride Generation-AAS	1.0-10 µg/L / 3µg/Kg
16	Foodstuffs	Mercury (Hg)	ACL-TMSOP-21* Cold Vapor-AAS	2.5-20 µg/L / 1.1 µg/Kg
17	Soil/Sediment	Lead (Pb) Cadmium (Cd)(GF-AAS) Chromium (Cr) Copper (Cu) Iron(Fe) Manganese (Mn) Zinc (Zn) Nickel (Ni) Cobalt (Co)	ACL-TMSOP-22* Flame/Graphite-AAS	0.5-2.5 mg/L / 0.25 mg/kg 1-6µg/L / 2 µg/kg 0.25-2.0 mg/L / 0.16mg/kg 0.2-2.0 mg/L / 0.05 mg/kg 1.0-4.0 mg/L / 0.15 mg/kg 0.2-2.0 mg/L / 0.15 mg/kg 0.1-0.4 mg/L / 0.21 mg/kg 0.5-6 mg/L / 0.54 mg/kg 0.2-2.0 mg/L / 0.12mg/kg
18	Soil/Sediment	Arsenic (As)	ACL-TMSOP-23* Hydride Generation-AAS	1.0-10 µg/L / 0.3 µg/Kg
19	Soil/Sediment	Mercury (Hg)	ACL-TMSOP-24* Cold Vapor-AAS	2.5-20 µg/L / 0.65 µg/Kg
20	Urine	Copper (Cu)	ACL-TMSOP-15* Flame-AAS	100-2000 µg/L / 20 µg/L

*Laboratory Developed Method

END



Quality Manager