



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

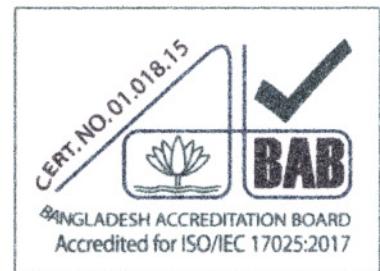
4 Kazi Nazrul Islam Avenue, Ramna, Dhaka-1000, Bangladesh

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 : **10 February 2022**
Date of Expiration : **28 February 2024**




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.

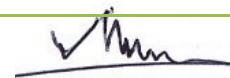
SCOPE OF ACCREDITATION

(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:	10 February 2022
Last Amended on:	N/A	Valid until:	28 February 2024
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

SCOPE OF ACCREDITATION

(For Testing Laboratory)

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Chemistry Division, Atomic Energy Centre
4, KaziNazrul Islam Avenue, Shahbag, Dhaka-1000, Bangladesh

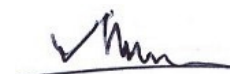
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Last Amended on: N/A
Amendment no: 01

Accreditation Date: 01 March 2015
Issued on: 10 February 2022
Valid until: 28 February 2024

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