



## 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

# Certificate of Accreditation

This is to certify that

**Analytical Chemistry Laboratory**

**Chemistry Division, Atomic Energy Centre**

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

has been granted accreditation in respect of the scope of accreditation described in the attached document, subject to the terms and conditions governing the relevant Conformity Assessment Body (CAB) accreditation

This Testing Laboratory having met the requirements of ISO/IEC 17025:2005 and the BAB, is accredited for Chemical Testing as described in the associated Scope of Accreditation.



**Certificate Number : 01.018.15**

**Issued on : 10 October 2018**

**Accreditation Date : 01 March 2015**

**Valid until : 28 February 2021**

**Md. Monwarul Islam**

**Director General**

**Bangladesh Accreditation Board (BAB)**

This certificate has been issued under the authority of Bangladesh Accreditation Act, 2006 and must be returned on request; reproduction must follow guidelines in place at date of issue. For the specific scopes to which this accreditation applies, please refer to the directory of accredited CABs at <http://www.bab.org.bd/directory-of-accredited-cabs>

## SCOPE OF ACCREDITATION

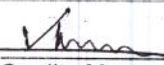
(For Testing Laboratory)

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

**Accreditation Standard:** ISO/IEC 17025:2005  
**Certificate Number:** 01.018.15  
**Last Amended on:** 10 October 2018  
**Amendment no:** 01

**Accreditation Date:** 01 March 2015  
**Issued on:** 10 October 2018  
**Valid until:** 28 February 2021

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: Chemical Testing</b>				
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 / 0.025 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 / 0.02 mg/ 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)	ACL-TMSOP-31*	15-75 µg/L / 0.12 mg/ Kg

  
Quality Manager

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(For Testing Laboratory)

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

<b>Accreditation Standard:</b>	ISO/IEC 17025:2005	<b>Accreditation Date:</b>	01 March 2015
<b>Certificate Number:</b>	01.018.15	<b>Issued on:</b>	10 October 2018
<b>Last Amended on:</b>	10 October 2018	<b>Valid until:</b>	28 February 2021
<b>Amendment no:</b>	01		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		Cadmium (Cd) Chromium (Cr)	Graphite Furnace-AAS	1.5-6.0 µg/L / 0.02 mg/ Kg 4-20 µg/L / 0.03 mg/ Kg
11	Feed	Arsenic (As)	ACL-TMSOP-32* Hydride Generation-AAS	1.0-10 µg/L / 0.02 mg/ Kg
12	Milk	Lead (Pb)	ACL-TMSOP-34* Graphite Furnace-AAS	15-75 µg/L / 0.006 mg/kg

\*Laboratory Developed Method

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

  
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 Quality Manager