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

Institute of National Analytical Research and Services (INARS) BCSIR
Dr. Qudrat-I-Khuda Road
Dhanmondi, Dhaka-1205, 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.

CERT.NO.01.047.18
BANGLADESH ACCREDITATION
Accredited for ISO/IEC 17025:2005

Certificate Number	**: 01.047.18**
Issued on	**: 27 February 2018**
Accreditation Date	**: 27 February 2018**
Valid until	**: 26 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

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SCOPE OF ACCREDITATION

(For Testing Laboratory)

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Certificate Number:	01.047.18	**Issued on:**	27 Feb 2018
Last Amended on:	NA	**Valid until:**	26 Feb 2021
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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
Field: Chemical Testing				
1.	Water, Waste Water, Drinking Water	Arsenic by HGAAS	APHA Method 3114.C	0.002-2 mg/L
2.	Water, Waste Water, Drinking Water	PO_4 by UV-Vis	APHA Method 4500-P C	0.2-1000 mg/L
3.	Water, Waste Water, Drinking Water	F^- by Ion Chromatography	APHA Method 4110 B	0.5-500 mg/L
4.	Water, Waste Water, Drinking Water	Cl^- by Ion Chromatography	APHA Method 4110 B	1.0-1000 mg/L
5.	Water, Waste Water, Drinking Water	No_2^- by Ion Chromatography	APHA Method 4110 B	1.0-500 mg/L
6.	Water, Waste Water, Drinking Water	Br^- by Ion Chromatography	APHA Method 4110 B	1.0-500 mg/L
7.	Water, Waste Water, Drinking Water	NO_3^- by Ion Chromatography	APHA Method 4110 B	3.0-1000 mg/L
8.	Water, Waste Water, Drinking Water	SO_4^{2-} by Ion Chromatography	APHA Method 4110 B	4.0-2000 mg/L
9.	Water, Waste Water, Drinking Water	Iron by Flame AAS	APHA Method 3110 B	0.2-1000 mg/L
10.	Water, Waste Water, Drinking Water	Conductivity by Multimeter	APHA Method 2510. B	0.25-10 µS/cm
11.	Water, Waste	Manganese by Flame AAS	APHA Method 3110 B	0.5-500 mg/L

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
	Water, Drinking Water			
12.	Water, Waste Water, Drinking Water	pH by Ion meter/ Multimeter	APHA Method 4500-H^+. B	1-12
13.	Water, Waste Water, Drinking Water	TDS by Gravimetric Method	APHA Method 2540 C	5.0-10000 mg/L
14.	Water, Waste Water, Drinking Water	Hardness by EDTA Titrimetric Method	APHA Method 2340 C	2.0-5000 mg/L
15.	Water, Waste Water, Drinking Water	Copper by Flame AAS	APHA Method 3111 B	0.2-1000 mg/L
16.	Water, Waste Water, Drinking Water	Zinc by Flame AAS	APHA Method 3111 B	0.1-1000 mg/L
17.	Water, Waste Water, Drinking Water	Sodium by Flame Photometry	APHA Method 3500-Na B	1.0-1000 mg/L
18.	Water, Waste Water, Drinking Water	Potassium by Flame Photometry	APHA Method 3500-K B	1.0-1000 mg/L
19.	Water, Waste Water, Drinking Water	Alkalinity by Titration Method	APHA Method 2320 B	2.0-5000 mg/L
20.	Water, Waste Water, Drinking Water	Oil & Grease by Partition Gravimetric Method	APHA Method 5520 B	5.0-1000 mg/L
21.	Water, Waste Water, Drinking Water	Aluminum by GF AAS	APHA Method 3113 B	0.02-1000 mg/L
22.	Water, Waste Water, Drinking Water	Cobalt by GFAAS	APHA Method 3113 B	0.02-1000 mg/L
23.	Water, Waste	Nickel by GFAAS	APHA Method 3113 B	0.02-1000 mg/L

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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
	Water, Drinking Water			
24.	Water, Waste Water, Drinking Water	Lead by GF AAS	APHA Method 3110 B	0.01-2 mg/L
25.	Water, Waste Water, Drinking Water	Cadmium by GF AAS	APHA Method 3110 B	0.001-1 mg/L
26.	Water, Waste Water, Drinking Water	Chromium by GF AAS	APHA Method 3111 D	0.2-1000 mg/L
27.	Water, Waste Water, Drinking Water	Calcium by High Flame AAS	APHA Method 3110 B	0.01-2 mg/L
28.	Water, Waste Water, Drinking Water	Magnesium by High Flame AAS	APHA Method 3111 B	0.1-1000 mg/L
29.	Water, Waste Water, Drinking Water	Mercury by Cold Mercury Vapor	APHA Method 3112 B	0.005-5 mg/L
30.	Water, Waste Water, Drinking Water	TOC by Total Organic Carbon Analyzer	APHA Method 5310B	0.5-1000 mg/L
31.	Water, Waste Water, Drinking Water	Phenolic compounds by UV-visible Spectrophotometer	APHA Method 5530 D	0.2-1000 mg/L
32.	Water, Waste Water, Drinking Water	Acidity by Titrimetric method	APHA Method 2510 B	2-500 mg/L
33.	Water, Waste Water, Drinking Water	Total Solid (TS)	APHA Method 2540 B	5-5000 mg/L
34.	Water, Waste Water, Drinking Water	Total Suspended Solid (TSS)	APHA Method 2540 D	2-5000 mg/L
35.	Water, Waste	Turbidity	APHA Method 2130 B	0.1-800 NTU

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	Water, Drinking Water			
36.	Water, Waste Water, Drinking Water	Ammonia	APHA Method 4500NH3	0.2-100 mg/L
37.	Water, Waste Water, Drinking Water	COD	APHA Method 5220B	2.0-5000 mg/L
38.	Water, Waste Water, Drinking Water	BOD	APHA Method 5210B	0.2-2500 mg/L
39.	Water, Waste Water, Drinking Water	Salinity Ion meter/ Multimeter	APHA Method 2520 B	0.1-50 ppt
40.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Aldrin) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
41.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Alpha-BHC) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
42.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Beta-BHC) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
43.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Delta-BHC) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
44.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Gama-BHC) (Lindane), by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
45.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Alpha-chlordane) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
46.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Gama-chlordane) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
47.	Water, Waste	Organochlorine pesticide (4,4'-	APHA Method 6630 B	0.002-10 mg/L

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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
	Water, Drinking Water	DDD) by GC,ECD		
48.	Water, Waste Water, Drinking Water	Organochlorine pesticide (4,4'-DDE) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
49.	Water, Waste Water, Drinking Water	Organochlorine pesticide (4,4'-DDT) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
50.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Dieldrin) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
51.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Endrin) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
52.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Endrin aldehyde) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
53.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Endrin ketone) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
54.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Endosufan I) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
55.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Endosufan II) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
56.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Endosufan sulfate) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
57.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Heptachlor) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
58.	Water, Waste Water, Drinking Water	Organochlorine pesticide (Heptachlor epoxide) (beta) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
59.	Water, Waste	Organochlorine pesticide	APHA Method 6630 B	0.002-10 mg/L

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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
	Water, Drinking Water	(Methoxychlor) by GC,ECD		
60	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Acenapthene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
61.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Acenapthylene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
62.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Anthracene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
63.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Benzo (a) Anthracene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
64.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Benzo (a) pyrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
65.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Benzo (b) fluoranthene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
66.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Benzo (g,h,i)perylene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
67.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Benzo (k)fluoranthene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
68.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Chrysene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
69.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Dibenz(a,h) Anthracene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
70.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Fluoranthene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L

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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
71.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Fluorene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
72.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Indeno (1,2,3-cd) pyrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
73.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Phenanthrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
74.	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Pyrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L

END

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