



ACCREDITATION CERTIFICATE

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

**Institute of National Analytical Research and Services
(INARS), BCSIR
Dr. Qudrat-I-Khuda Road, Dhanmondi
Dhaka-1205, 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 : **01.047.18**
Accreditation Date : **27 February 2018**
Date of Issuance : **15 February 2021**
Date of Expiration : **26 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.

ACCREDITATION SCHEME

(For Testing Laboratory)

CAB Name & Address: Institute of National Analytical Research and Service (INARS), Bangladesh Council of Scientific and Industrial Research (BCSIR)
 Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka, Bangladesh

Accreditation Standard: ISO/IEC 17025:2017 **Accreditation Date:** 27 February 2018
Certificate Number: 01.047.18 **Issued on:** 15 February 2021
Last Amended on: N/A **Valid until:** 26 February 2024
Amendment no: N/A

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	Anions (F ⁻) by Ion Chromatography	APHA Method 4110 B	0.5-500 mg/L
4	Water, Waste Water, Drinking Water	Anions (Cl ⁻) by Ion Chromatography	APHA Method 4110 B	1.0-1000 mg/L
5	Water, Waste Water, Drinking Water	Anions (NO ₂ ⁻) by Ion Chromatography	APHA Method 4110 B	1.0-500 mg/L
6	Water, Waste Water, Drinking Water	Anions (Br ⁻) by Ion Chromatography	APHA Method 4110 B	1.0-500 mg/L
7	Water, Waste Water, Drinking Water	Anions (NO ₃ ⁻) by Ion Chromatography	APHA Method 4110 B	3.0-1000 mg/L
8	Water, Waste Water, Drinking Water	Anions (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 3111 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 Water, Drinking Water	Manganese by Flame AAS	APHA Method 3111 B	0.5-500 mg/L
12	Water, Waste Water, Drinking Water	pH by Ion meter/ Multimeter	APHA Method 4500-H ⁺ . B	1-12



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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 Water, Drinking Water	Nickel by GFAAS	APHA Method 3113 B	0.02-1000 mg/L
24	Water, Waste Water, Drinking Water	Lead by GF AAS	APHA Method 3111 B	0.01-2 mg/L
25	Water, Waste Water, Drinking Water	Cadmium by GF AAS	APHA Method 3111 B	0.001-1 mg/L



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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 Method	APHA Method 3112 B	0.005-5 mg/L
30	Water, Waste Water, Drinking Water	TOC by Total Organic Carbon Analyzer	APHA Method 5310B	05-1000 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 2310 B	2-500 mg/L
33	Water, Waste Water, Drinking Water	Total Solids (TS)	APHA Method 2540 B	05-5000 mg/L
34	Water, Waste Water, Drinking Water	Total Suspended Solids (TSS)	APHA Method 2540 D	05-5000 mg/L
35	Water, Waste Water, Drinking Water	Turbidity	APHA Method 2130 B	0.1-800 NTU
36	Water, Waste Water, Drinking Water	Ammonia	APHA Method 4500NH3	0.2-100 mg/L
37	Water, Waste Water, Drinking Water	Chemical Oxygen Demand (COD)	APHA Method 5220B	2.0-5000 mg/L
38	Water, Waste Water, Drinking Water	Bio Chemical Oxygen Demand (BOD)	APHA Method 5210B	0.2-2500 mg/L



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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 Water, Drinking Water	Organochlorine pesticide (4,4'-DDD) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
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



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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 Water, Drinking Water	Organochlorine pesticide (Methoxychlor) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
60	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Acenaphthene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
61	Water, Waste Water, Drinking Water	Poly aromatic hydrocarbons (Acenaphthylene) 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



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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
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
75	Water, Waste Water, Drinking Water	Carbonate Hardness	APHA Method 2340 C	2-5000 mg/L
76	Water, Waste Water, Drinking Water	Non-Carbonate Hardness	APHA Method 2340 C	2-5000 mg/L
77	Water, Waste Water, Drinking Water	Negative hardness	APHA Method 2340 C	2-5000 mg/L



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78	Water, Waste Water, Drinking Water	Carbon-di-oxide	APHA Method 2310 B	2-500 mg/L
79	Water, Waste Water, Drinking Water	Carbonate by Titration Method	APHA Method 2320 B	2.0-5000 mg/L
80	Water, Waste Water, Drinking Water	Bi-carbonate by Titration Method	APHA Method 2320 B	2.0-5000 mg/L
81	Water, Waste Water, Drinking Water	Chlorine	APHA Method 4500-Cl B	1-5000 mg/L
82	Water/ Solid/ Paper/ Fuel/ Fibre/ Clothes	Elemental Analysis (%C)	Dumas Combustion method	1-90%
83		Elemental Analysis (%N)	Dumas Combustion method	1-90%
84		Elemental Analysis (%S.)	Dumas Combustion method	1-90%
85		Elemental Analysis (%H)	Dumas Combustion method	1-90%
86	Water, Waste Water, Drinking Water	Total Nitrogen	Lachate Method	0.5 – 99%
87	Water, Waste Water, Drinking Water	Color	APHA Method 2120	
88	Water, Waste Water, Drinking Water	Odor	APHA Method 2150	

END



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