



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	: 11 March 2024
Date of Expiration	: 26 February 2027




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	Institute of National Analytical Research and Service (INARS), BCSIR Dr. Qudrat-I-Khuda road, Dhanmondi, Dhaka-1205, Bangladesh.
Accreditation Standard:	ISO/IEC 17025:2017
Certificate Number:	01.047.18
Last Amended on:	NA
Amendment no:	NA
Accreditation Date:	27 February 2018
Issued on:	11 March 2024
Valid until:	26 February 2027

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	Arsenic by HG AAS	APHA Method 3114.C	0.002-2 mg/L
2	Water	PO ₄ by UV-Vis	APHA Method 4500-P C	0.2-1000 mg/L
3	Water	Anions (F ⁻) by Ion Chromatography	APHA Method 4110 B	0.5-500 mg/L
4	Water	Anions (Cl ⁻) by Ion Chromatography	APHA Method 4110 B	1.0-1000 mg/L
5	Water	Anions (NO ₂ ⁻) by Ion Chromatography	APHA Method 4110 B	1.0-500 mg/L
6	Water	Anions (Br ⁻) by Ion Chromatography	APHA Method 4110 B	1.0-500 mg/L
7	Water	Anions (NO ₃ ⁻) by Ion Chromatography	APHA Method 4110 B	3.0-1000 mg/L
8	Water	Anions (SO ₄ ²⁻) by Ion Chromatography	APHA Method 4110 B	4.0-2000 mg/L
9	Water	Iron by Flame AAS	APHA Method 3110 B	0.2-1000 mg/L
10	Water	Conductivity by Multimeter	APHA Method 2510. B	0.25-10 μ S/cm
11	Water	Manganese by Flame AAS	APHA Method 3110 B	0.5-500 mg/L
12	Water	pH by Ion meter/ Multimeter	APHA Method 4500-H ⁺ . B	1-12
13	Water	TDS by Gravimetric Method	APHA Method 2540 C	5.0-10000 mg/L
14	Water	Hardness	APHA Method 2340 C	2.0-5000 mg/L
15	Water	Copper by Flame AAS	APHA Method 3111 B	0.2-1000 mg/L
16	Water	Zinc by Flame AAS	APHA Method 3111 B	0.1-1000 mg/L
17	Water	Sodium by Flame Photometry	APHA Method 3500-Na B	1.0-1000 mg/L
18	Water	Potassium by Flame Photometry	APHA Method 3500-K B	1.0-1000 mg/L
19	Water	Alkalinity by Titration Method	APHA Method 2320 B	2.0-5000 mg/L
20	Water	Oil & Grease by Partition Gravimetric Method	APHA Method 5520 B	5.0-1000 mg/L
21	Water	Aluminum by GF AAS	APHA Method 3113 B	0.02-1000 mg/L
22	Water	Cobalt by GF AAS	APHA Method 3113 B	0.02-1000 mg/L
23	Water	Nickel by GF AAS	APHA Method 3113 B	0.02-1000 mg/L

Quality Manager

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24	Water	Lead by GFAAS	APHA Method 3110 B	0.01-2 mg/L
25	Water	Cadmium by GFAAS	APHA Method 3110 B	0.001-1 mg/L
26	Water	Chromium by GFAAS	APHA Method 3111 D	0.2-1000 mg/L
27	Water	Calcium by High Flame AAS	APHA Method 3110 B	0.01-2 mg/L
28	Water	Magnesium by High Flame AAS	APHA Method 3111 B	0.1-1000 mg/L
29	Water	Mercury by Cold Mercury Vapor Method	APHA Method 3112 B	0.005-5 mg/L
30	Water	TOC by Total Organic Carbon Analyzer	APHA Method 5310B	05-1000 mg/L
31	Water	Phenolic compounds by UV-visible Spectrophotometer	APHA Method 5530 D	0.2-1000 mg/L
32	Water	Acidity	APHA Method 2510 B	2-500 mg/L
33	Water	Total Solids (TS) by Gravimetric Method	APHA Method 2540 B	05-5000 mg/L
34	Water	Total Suspended Solids (TSS) by Gravimetric Method	APHA Method 2540 D	05-5000 mg/L
35	Water	Turbidity	APHA Method 2130 B	0.1-800 NTU
36	Water	Ammonia by Gravimetric Method	APHA Method 4500NH3	0.2-100 mg/L
37	Water	Chemical Oxygen Demand (COD)	APHA Method 5220B	2.0-5000 mg/L
38	Water	Biological Oxygen Demand (BOD)	APHA Method 5210B	0.2-2500 mg/L
39	Water	Salinity Ion meter/ Multimeter	APHA Method 2520 B	0.1-50 ppt
40	Water	Organochlorine pesticide (Aldrin) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
41	Water	Organochlorine pesticide (Alpha- BHC) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
42	Water	Organochlorine pesticide (Beta-BHC) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
43	Water	Organochlorine pesticide (Delta-BHC) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
44	Water	Organochlorine pesticide (Gama-BHC) (Lindane), by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
45	Water	Organochlorine pesticide (Alpha- chlordane) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
46	Water	Organochlorine pesticide (Gama- chlordane) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
47	Water	Organochlorine pesticide (4,4'-DDD) by GC,ECD	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
48	Water	Organochlorine pesticide (4,4'-DDE) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
49	Water	Organochlorine pesticide (4,4'-DDT) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
50	Water	Organochlorine pesticide (Dieldrin) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
51	Water	Organochlorine pesticide (Endrin) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
52	Water	Organochlorine pesticide (Endrin aldehyde) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
53	Water	Organochlorine pesticide (Endrin ketone) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
54	Water	Organochlorine pesticide (Endosufan I) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
55	Water	Organochlorine pesticide (Endosufan II) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
56	Water	Organochlorine pesticide (Endosufan sulfate) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
57	Water	Organochlorine pesticide (Heptachlor) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
58	Water	Organochlorine pesticide (Heptachlor epoxide) (beta) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
59	Water	Organochlorine pesticide (Methoxychlor) by GC,ECD	APHA Method 6630 B	0.002-10 mg/L
60	Water	Poly aromatic hydrocarbons (Acenaphthene) by GC-MS,	APHA Method 6440 B	0.005-10 mg/L
61	Water	Poly aromatic hydrocarbons (Acenaphthylene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
62	Water	Poly aromatic hydrocarbons (Anthracene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
63	Water	Poly aromatic hydrocarbons (Benzo (a) Anthracene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
64	Water	Poly aromatic hydrocarbons (Benzo (a) pyrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
65	Water	Poly aromatic hydrocarbons (Benzo (b) fluoranthene) by GC-MS,	APHA Method 6440 B	0.005-10 mg/L
66	Water	Poly aromatic hydrocarbons (Benzo (g,h,i)perylene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
67	Water	Poly aromatic hydrocarbons (Benzo	APHA Method 6440 B	0.005-10 mg/L

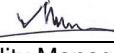
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68	Water	(k)fluoranthene) by GC-MS Poly aromatic hydrocarbons (Chrysene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
69	Water	Poly aromatic hydrocarbons (Dibenz(a,h) Anthracene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
70	Water	Poly aromatic hydrocarbons (Fluoranthene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
71	Water	Poly aromatic hydrocarbons (Fluorene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
72	Water	Poly aromatic hydrocarbons (Indeno (1,2,3-cd) pyrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
73	Water	Poly aromatic hydrocarbons (Phenanthrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
74	Water	Poly aromatic hydrocarbons (Pyrene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
75	Water	Poly aromatic hydrocarbons (1-Methylnaphthalene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
76	Water	Poly aromatic hydrocarbons (2-Methylnaphthalene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
77	Water	Poly aromatic hydrocarbons (Naphthalene) by GC-MS	APHA Method 6440 B	0.005-10 mg/L
78	Water	Carbonate Hardness	Titrimetric Method	2-5000 mg/L
79	Water	Non-Carbonate Hardness	Titrimetric Method S	2-5000 mg/L
80	Water	Negative hardness	Titrimetric Method	2-5000 mg/L
81	Water	Carbon-di-oxide	Titrimetric Method	2-500 mg/L
82	Water	Carbonate	APHA Method 2320 B	2.0-5000 mg/L
83	Water	Bi-carbonate	APHA Method 2320 B	2.0-5000 mg/L
84	Water	Carbon by Elemental Analyzer	Dumas Combustion method	1-90%
85	Water	Nitrogen by Elemental Analyzer	Dumas Combustion method	1-90%
86	Water	Sulphur by Elemental Analyzer	Dumas Combustion method	1-90%
87	Water	Hydrogen by Elemental Analyzer	Dumas Combustion method	1-90%
88	Water	Chlorine	APHA Method 4500Cl B	1-5000 mg/L
89	Water	Total Nitrogen	Lachate Method	0.5 – 99%
90	Water	Color by UV-visible Spectrophotometer	APHA Method 2120	
91	Water	Odor	APHA Method 2120	
92	Water	Antimony by HG AAS	APHA Method 3114 C	0.002-1 mg/L
93	Water	Molybdenum by Flame AAS	APHA Method 3113 B	0.06-0.6 mg/L


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94	Water	Selenium by HG AAS	APHA Method 3114 C	0.002-1 mg/L
95	Water	Silver by Flame AAS	APHA Method 3111 B	0.1-1 mg/L
96	Water	Vanadium by GF AAS	APHA Method 3113 B	0.05-.2 mg/L
97	Water	Beryllium by Flame AAS	APHA Method 3111 B	0.1-2 mg/L
98	Water	Lithium by Flame AAS	APHA Method 3500 Li B	1.0-1000 mg/L
99	Water	Barium by GF AAS	APHA Method 3500 Ba	1.0-1000 mg/L
100	Water	Hydrogen peroxide	Titrimetric method	0.1-35000 mg/L

END

Quality Manager