GLOBAL ACCEPTANCE

BAB

BANGLADESH ACCREDITATION BOARD

ACCREDITATION CERTIFICATE

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

Bangladesh Material Testing Laboratory Ltd.

Plot # 33 & 37 (1st Floor), Milk Vita Road, Section-7

Mirpur, Dhaka-1216, 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.

CERT. NO. 01.023.15

BAB

BANGLADESH ACCREDITATION BOARD
Accredited for ISO/IEC 17025:2017

Certificate Number	:	**01.023.15**
Accreditation Date	:	**02 June 2015**
Date of Issuance	:	**22 September 2024(3rd Renewal)**
Date of Expiration	:	**01 June 2027**

GLOBAL BAB ACCREDITED ACCEPTANCE

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.

BANGLADESH ACCREDITATION BOARD (BAB)

91, Motijheel C/A, Dhaka-1000
Tel: +880-2-9513221
Fax: +880-2-9513222
Email: info@bab.gov.bd
Web: www.bab.gov.bd

SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address:	**Bangladesh Material Testing Laboratory Ltd.** **Plot # 33 & 37 (1st Floor), Milk Vita Road, Section-7, Mirpur, Dhaka-1216, Bangladesh.**
Accreditation Standard:	ISO/IEC 17025:2017
Certificate Number:	01.023.15
Last Amended on:	N/A
Amendment no:	N/A

Accreditation Date:	02 Jun 15
Issued on:	22 Sep 24
Valid until:	01 June 27

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
1	Geotextile/ Geosynthetics	Geotextiles-Determination of mass per unit area	ISO 9864:2005	1-2000 gm/m^2
2	Geotextile/ Geosynthetics	Standard Test Method for Measuring Mass per Unit Area of Geotextiles	ASTM D5261-10:2018	10-2000 gm/m^2
3	Geotextile/ Geosynthetics	Geosynthetics-Determination of Thickness at specified Pressures	ISO 9863-1:2016	0.01-10 mm
4	Geotextile/ Geosynthetics	Standard Test Method for Measuring the Nominal Thickness of Geosynthetics	ASTM D5199-12:2019	0.01-10 mm
5	Geotextile/ Geosynthetics	Geosynthetics-Wide-width tensile test.	ISO 10319:2015	0.01-100 kN/m^2
6	Geotextile/ Geosynthetics	Geosynthetics-Wide-width tensile test.	ASTM D4595-17:2017	0.01-100 kN/m^2
7	Geotextile/ Geosynthetics	Geosynthetics- Static Puncture Test (CBR Test)	ISO 12236:2006	2-30000 N
8	Geotextile/ Geosynthetics	Geosynthetics- Static Puncture Test (CBR Test)	ASTM D6241-14:2014	2-30000 N
9	Geotextile/ Geosynthetics	Geotextiles and geotextile-related products- Determination of water permeability characteristics normal to the plane, without load.	ISO 11058:2019	0-400 mm head difference
10	Geotextile/ Geosynthetics	Standard Test Methods for Water Permeability of Geotextile by Permittivity	ASTM D4491-22:2022	0-400 mm head difference
11	Geotextile/ Geosynthetics	Geotextiles and geotextile-related products- Determination of the characteristic opening size.	ISO 12956:2019	40-300 µm
12	Geotextile/ Geosynthetics	Standard Test Method for Determining Apparent Opening Size of Geotextile.	ASTM D4751-21a:2021	40-300µm
13	Geotextile/ Geosynthetics	Geotextiles and geotextile-related products- Determination of the resistance to weathering	BS EN 12224:2000	0-100%

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14	Geotextile/ Geosynthetics	Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus	ASTM D4355-21:2021	0-100%
15	Geotextile/ Geosynthetics	Abrasion Resistance of geotextiles	BAW guideline	0-100%
16	Geotextile/ Geosynthetics	Determination of Index abrasion resistance characteristics under wet conditions for hydraulic applications	ISO 22182:2020	0-100%
17	Geotextile/ Geosynthetics	Tensile Test for Joints/Seam by wide width strip Method	ISO 10321:2008	2-100 kN/m²
18	Geotextile/ Geosynthetics	Grab Breaking Load and Elongation of Geotextiles	ASTM D4632-15a:2015	2-30000 N
19	Geotextile/ Geosynthetics	Determination of Tensile Strength and Elongation	EN 29073-3:1992	2-30000 N
20	Geotextile/ Geosynthetics	Index puncture resistance of geomembrane and related products	ASTM D4833-07:2020	2-30000 N
21	Geotextile/ Geosynthetics	Standard Test Method for Trapezoid Tearing Strength of Geotextiles	ASTM D4533-15	2-30000 N
22	Geotextile/ Geosynthetics	Determination of Tensile Properties of Yarns	ASTM D2256-10:2015	1-4900 N
23	Geotextile/ Geosynthetics	Standard Test Method for width of Textile Fabric	ASTM D3774-18:2018	1-100cm
24	Geotextile/ Geosynthetics	Determination of polymeric light stabilizer in polypropylene	W. Freitag Method-1983	200-700nm
25	Geotextile/ Geosynthetics	Mixture of Polypropylene fibers and certain other fibers (Method Using Xylene)	ISO 1833-16:2019	0-100%
26	Geotextile/ Geosynthetics	Geotextiles and geotextile-related products - Screening test method for determining the resistance to acid and alkaline liquids (ISO/TR 12960:1998, modified)	BS EN 14030	0-100%

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27	Geotextile/ Geosynthetics	Geotextiles and geotextile-related products- Screening test method for determining the resistance to hydrolysis in water	BS EN 12447	0-100%
28	Geotextile/ Geosynthetics	Screening test method for determining the resistance of geotextiles and geotextile related products to oxidation	ISO 13438:2018	0-100%
29	Textile Fibers	Determination of breaking force and elongation at break of individual fibers	ISO 5079:2020	1-500 cN
30	Aggregate	Sieve Analysis of Fine and Coarse Aggregates	ASTM C136	75 - 0.075 mm
31	Aggregate	Aggregate Crushing Value	BS 812-110	0-99%
32	Aggregate	Flakiness Index	BS 812-105.1	0-99%
33	Aggregate	Elongation Index	BS 812-105.2	0-99%
34	Aggregate	Los Angeles Abrasion Test of Coarse Aggregate	ASTM C131	0-100%
35	Aggregate	Los Angeles Abrasion Test of Ballast	ASTM C535	0-100%
36	Bitumen	Penetration of Bituminous Materials	ASTM D5	10 – 300 mm
37	Bitumen	Flash and Fire Points of Bituminous Materials/ Petroleum Products by Cleveland Open Cup Tester	ASTM D92	50 - 350 ℃
38	Bitumen	Solubility of Asphalt Materials in Trichloroethylene	ASTM D2042	1.00 - 99.90 %
39	Bitumen	Ductility of Asphalt Materials	ASTM D113	150 cm
40	Bitumen	Softening Point of Bitumen (Ring-and-Ball Apparatus)	ASTM D36	30 - 120 ℃
41	Bitumen	Specific gravity of Bituminous Materials	ASTM D70	0.80 - 1.20
42	Cement	Compressive Strength of Hydraulic Cement (Mortars made with Ottawa sand)	ASTM C109	3.0 - 200 MPa

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43	Cement	Specific gravity/ Density of Hydraulic Cement	ASTM C188	2.40 - 3.60
44	Cement	Fineness of Hydraulic Cement	ASTM C204	2000 - 4000 cm²/g
45	Cement	Normal Consistency of Hydraulic Cement Paste	ASTM C187	20 - 40 %
46	Cement	Setting time of Hydraulic Cement Paste	ASTM C191	10 - 1000 mint.
47	Cement	Weight of cement bag	BMTL/SOP/CL/006	1 - 80 kg
48	Concrete	Compressive Strength of Concreate Cylindrical Specimen	ASTM C39	3.0 - 200 MPa
49	Bricks	Standard Test Method for Sampling and Testing Brick and Structural Clay Tile	ASTM C67	3.0-200 MPa
50	Bricks	Specific Gravity of Bricks	ASTM C20	1.2 – 2.5 g/cm3

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Quality Manager