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

GPHI Quality Control Laboratory

Masjiddah, Kumira

Sitakunda, Chattogram, 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	:	**01.082.23**
Accreditation Date	:	**08 August 2023**
Date of Issuance	:	**08 August 2023**
Date of Expiration	:	**07 August 2026**

CERT. NO. 01.082.23
BAB
BANGLADESH ACCREDITATION BOARD
Accredited for ISO/IEC 17025:2017

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Sheikh Faezul Amin
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)

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Web: www.bab.gov.bd

SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address:	GPHI Quality Control Laboratory Masjiddah, Kumira, Sitakunda, Chattogram, Bangladesh		
Accreditation Standard:	**ISO/IEC 17025:2017**	**Accreditation Date:**	08 August 2023
Certificate Number:	01.082.23	**Issued on:**	08 August 2023
Last Amended on:	-	**Valid until:**	07 August 2026
Amendment no:	-		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Mechanical Testing				
1.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Mass per unit Length	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	0.10-20.0 kg/m
2.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Yield Strength	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	300-800 MPa or N/mm^2
3.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Tensile Strength	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	400-1400 MPa or N/mm^2
4.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Elongation at Maximum Force (GL=200 mm)	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	2.0-50.0 %
5.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Elongation after Fracture (GL=5D mm)	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	2.0-60.0 %
6.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Bend Test	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	Mandrel Size: (mm) 8-16mm: 3D, 20-32mm: 6D, 40-50mm: 7D
7.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Re-bend Test	BDS ISO 6935-2: 2021 ISO 15630-1: 2019	Mandrel Size: (mm) 8-16mm: 5D, 20-25mm: 8D, 28-50mm: 10D
Field: Chemical Testing				
8.	Steel for the Reinforcement of Concrete	Carbon (C)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00050 – 1.50

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
	(Ribbed Bar)			
9.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Silicon (Si)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00060 – 20.00
10.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Manganese (Mn)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00020 – 2.30
11.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Phosphorus (P)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00020 – 0.120
12.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Sulphur (S)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00010 – 0.120
13.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Chromium (Cr)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00030 – 8.50
14.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Molybdenum (Mo)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00003 – 8.50
15.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Nickel (Ni)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00040 – 5.40
16.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Copper (Cu)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00050 – 1.20
17.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Vanadium (V)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00020 – 1.10
18.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Lead (Pb)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00020 – 0.0250

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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
19.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Tin (Sn)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00010 – 0.130
20.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Calcium (Ca)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00003 – 0.0120
21.	Steel for the Reinforcement of Concrete (Ribbed Bar)	Nitrogen (N)	ASTM E415-21 (Spectrometric analysis by SpectroLab, Germany)	0.00040 – 0.0350

END

Quality Manager