



Regulation No. 54-Law/2010[(Clause 8(1))]

**Bangladesh Standards and Testing Institution**

**Ministry of Industries**

**Management Systems Certification Wing**

116/A, Tejgaon Industrial Area, Dhaka-1208, Bangladesh



## Certificate

This is to certify that  
the **Quality Management Systems (QMS)** of  
**Rahima Industrial Complex Limited**  
Mahona, Duptara, Rupganj, Narayanganj, Bangladesh  
has been assessed by MSC wing of BSTI and registered  
in compliance with  
**ISO 9001: 2015**

### Scope of Certification :

Manufacturing of Reinforcing Steel Bars (Ribbed Bars) (B500 DWR & B420 DWR- 08 to 32mm)

Certificate No. : DHK-QMS-0000000000092

Tracking No: MSC-CI-20241215-0002

Date of Issue : 26-12-2024

Date of Registration : 04-12-2024

Date of Expiry : 03-12-2027



Engr. Md. Nurul Islam  
Head of MSC Wing

S.M. Ferdous Alam  
Director General(Grade-1),BSTI

The conditions of the certificate are specified in the certification agreement.  
This certificate must be returned if cancelled or withdrawn.



# বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন

শিল্প মন্ত্রণালয়  
প্রধান কার্যালয়, ঢাকা



## স্ট্যান্ডার্ড চিহ্ন ব্যবহারের লাইসেন্স

স্মারক নং: ৩৬.০৫.০০০০.৩০২.৩২.১৭২.২৩

ট্র্যাকিং নং: CM-LI-20240515-0004

লাইসেন্স নম্বর: DHK-CM-000000004546

ইস্যু তারিখ: ১৫-০৫-২০২৪ খ্রিঃ

ইনস্টিটিউশন এতদ্বারা রহিমা ইন্ডাস্ট্রিয়াল কমপ্লেক্স লিঃ, মাহনা, দুগুারা, রুপগঞ্জ, নারায়ণগঞ্জ এর মোঃ সাইফুর রহমান কে নিম্নের ছকে বর্ণিত পণ্য, দ্রব্য, সেবা বা প্রক্রিয়ায় ইনস্টিটিউশন কর্তৃক নির্ধারিত স্ট্যান্ডার্ড মার্ক ব্যবহার করিবার লাইসেন্স প্রদান করা হইল।

পণ্য বা দ্রব্যের মোড়কে ইনস্টিটিউশন কর্তৃক প্রদত্ত মেশিন রিডেবল কোড ব্যবহার করিতে হইবে।

লাইসেন্সধারী লাইসেন্স এর শর্তাবলি প্রতিপালন করিবেন।

লাইসেন্সটির মেয়াদ হইবে ২৫-০৪-২০২৪ তারিখ হইতে ৩০-০৬-২০২৬ তারিখ পর্যন্ত।

মেয়াদ উত্তীর্ণের ৩ (তিন) মাস পূর্বে লাইসেন্স নবায়নের জন্য আবেদন করিতে হইবে।

### পণ্য, দ্রব্য, সেবা বা প্রক্রিয়ার বিবরণ

স্ট্যান্ডার্ড মার্ক	পণ্য, দ্রব্য, সেবা বা প্রক্রিয়া	সংশ্লিষ্ট বাংলাদেশ স্ট্যান্ডার্ড (বিডিএস) নম্বর
	পণ্য: স্টিল ফর দি রি-ইনফোর্সমেন্ট অব কনক্রিট (রিবড বার) ব্র্যান্ড ও পণ্যের বিবরণ সংযুক্ত তালিকায়।	বিডিএস আইএসও ৬৯৩৫-২:২০২১

### লাইসেন্স ফি'র বিবরণ

ইউনিট	ইউনিট প্রতি লাইসেন্স ফি'র হার	পরিশোধের প্রকৃতি
প্রতি একশত টাকা এক্স ফ্যাক্টরি মূল্য (মূল্য সংযোজন কর ব্যতীত কারখানা বা প্রতিষ্ঠানের উৎপাদিত বা বাজারজাতকৃত দ্রব্যের বিক্রয়মূল্য)	০.১০%	(ক) স্ট্যান্ডার্ড মার্ক ব্যবহারের জন্য নির্ধারিত হার অনুযায়ী বাৎসরিক লাইসেন্স ফি অগ্রিম পরিশোধ করা হইয়াছে; (খ) বাৎসরিক উৎপাদনের ভিত্তিতে হার অনুযায়ী অতিরিক্ত ফি প্রযোজ্য হইলে মেয়াদান্তে উহাও পরিশোধ করিতে হইবে।

বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন এর পক্ষে



মোঃ নূরুল আমিন

পরিচালক (সিএম)

ক্ষমতাপ্রাপ্ত কর্মকর্তার স্বাক্ষর ও সিল







**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**STRENGTH OF MATERIALS LABORATORY**



Mobile: 01819557964; PABX: (8802) - 55167100, 55167228-57 Ext. 7226, Info: <http://brtc.ce.buet.ac.bd/home>, Report verification: <http://verify.ce.buet.ac.bd>

**TEST OF DEFORMED M.S. BARS [ASTM A 615M-16]**

Sent by: Md. Saifur Rahman Khokon, Managing Director

Rahma Industrial Complex Ltd., Mawna, Duplata, Ruppagni, Narayanganj.

Project: Rahma Industrial Complex Ltd., Mawna, Duplata, Ruppagni, Narayanganj.

BRTC No.: 1103-24312/CE/23-24; Dt. 3/6/2024

Ref.: Letter, Dt. 3/6/2024

Date of Test: 4/6/2024

Samples were received in UNSEALED condition.

Sl. No.	Frog Mark / Identification	Bar Desig./Nominal dia.	Actual bar dia.	Unit Weight	Average Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength (YS)	Tensile Load	Tensile Strength	Average Tensile Strength (TS)	TS/YS	Elongation (%) (G. length = 200 mm)	Average Elongation (%)	Bend Test
1	RICL B420 DWR TMX	10	10.0	0.618	0.616	35.9	454	454	53.1	675	670	1.48	16	17	-
2	RICL B420 DWR TMX	10	9.9	0.605	0.616	34.9	441	(66000 psi)	52.1	660	(97000 psi)	1.48	17	17	-
3	RICL B420 DWR TMX	10	10.1	0.624		36.9	467		53.1	675			17		-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Conversion factor: 1.0 MPa = 145 psi. Strengths are based on nominal area.

ASTM A615M-16 Weight Requirements and Nominal Area of bars (Table A1.1)

Bar desig./Nominal dia., mm	8	10	12	16	20	22	25	28	32	36	40	50	60
Nominal area, sq.mm	50.3	79	113	201	314	380	491	616	804	1018	1257	1963	2827
Nominal weight, Kg/m	0.395	0.617	0.888	1.578	2.466	2.98	3.853	4.834	6.313	7.99	9.865	15.41	22.2

Measured unit weight shall not be less than 94% of the nominal weight. 8mm bar size is not covered in ASTM A615M-16.

Area and weight of 8mm and 22mm dia. bars are derived based on principle followed for other sizes in Table A1.1

Actual dia. and TSVS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16.

Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

ASTM A615M-16 Tensile Requirements for Common Steel Grades

	Grade 60	Grade 75	Grade 80
Tensile strength, min. psi [MPa]	[420]	[520]	[550]
Yield strength, min. psi [MPa]	60 000 [420]	75 000 [520]	80 000 [550]

	10, 12, 16, 20	25, 22	28, 32, 36, 40, 50, 60
Elongation in 8 in. [200 mm], min, %	9	7	7
Bar Designation No.	10, 12, 16, 20	25, 22	28, 32, 36, 40, 50, 60

**Important Note:** Samples as supplied to us have been tested. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/package/container under the signature of a competent authority. In order to avoid fraudulent fabrication of test results, this report has been printed on a sec. It is also recommended that the test results be collected by a duly authorized person.

Countersigned by:  
  
 Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge  
 Dept. of Civil Engrg., BUET, Dhaka-1000, Bangladesh

Test performed by:  
  
 Dr. A.B.M. Badruzzaman  
 Professor, Dept. of Civil Engrg., BUET



06 June 2024





# BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)

## DEPARTMENT OF CIVIL ENGINEERING

### STRENGTH OF MATERIALS LABORATORY

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Sent by: Md. Saifur Rahman Khokon, Managing Director  
 Rahima Industrial Complex Ltd., Mawna, Duppara, Rangani, Narayanganj.  
 Project: Rahima Industrial Complex Ltd., Mawna, Duppara, Rangani, Narayanganj.

BRTC No.: 1103-24312/CE/23-24; Dt. 3/6/2024  
 Ref.: Letter: Dt. 3/6/2024  
 Date of Test: 4/6/2024

Samples were received in UNSEALED condition.

Sl. No.	Frog Mark / Identification	Bar Desig./ Nominal dia.	Actual bar dia.	Unit Weight	Average Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength (YS)	Tensile Load	Tensile Strength	Average Tensile Strength (TS)	T.S/Y.S	Elongation (%)	Average Elongation (%)	Bend Test
1	RICI B420 DWR TMX	12	12.1	0.898	0.894	51.1	452	452	78.5	695	690	1.53	17	17	-
2	RICI B420 DWR TMX	12	12.0	0.888		51.1	452	(65500 psi)	77.5	685	(100000 psi)		17		-
3	RICI B420 DWR TMX	12	12.1	0.897		51.1	452		78.5	695			16		-
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Conversion factor: 1.0 MPa = 1.0 N/mm<sup>2</sup> = 145 psi. Strengths are based on nominal area.

ASTM A615M-16 Weight Requirements and Nominal Area of Bars (Table A1.1)

Bar desig./Nominal dia., mm	8	10	12	16	20	22	25	28	32	36	40	50	60
Nominal area, sq. mm	50.3	79	113	201	314	380	491	616	804	1018	1257	1963	2827
Nominal weight, kg/m	0.395	0.617	0.888	1.578	2.466	2.98	3.853	4.834	6.313	7.99	9.865	15.41	22.2

Measured unit weight shall not be less than 94% of the nominal weight. 6mm bar size is not covered in ASTM A615M-16. Area and weight of 6mm and 22mm dia. bars are derived based on principle followed for other sizes in Table A1.1. Actual dia. and T.S/Y.S ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16. Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

ASTM A615M-16 Tensile Requirements for Common Steel Grades

	Grade 60	Grade 75	Grade 80
[420]	[520]	[550]	

Tensile strength, min. psi [MPa]	90 000 [620]	100 000 [690]	105 000 [725]
Yield strength, min. psi [MPa]	60 000 [420]	75 000 [520]	80 000 [550]

Elongation in 8 in. [200 mm], min. %

Bar Designation No.	9	7	7
10, 12, 16, 20			
25, 28	8	6	7
28, 32, 36, 40, 50, 60	7	6	6

**Important Note:** Samples as supplied to us have been tested. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/box/container under the signature of a competent authority. In order to avoid fraudulent fabrication of test results, this report has been printed on a secure paper. It is also recommended that the test results be collected by a duly authorized person.

Countersigned by:  
 Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge  
 Dept. of Civil Engg., BUET, Dhaka-1000, Bangladesh

Test performed by:  
 Dr. A.B.M. Badruzzaman  
 Professor, Dept. of Civil Engg., BUET



06 June 2024





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Sent by: Md. Saifur Rahman Khokon, Managing Director  
 Rahima Industrial Complex Ltd., Mawna, Duplara, Ruggani, Narayanganj;  
 Project: Rahima Industrial Complex Ltd., Mawna, Duplara, Ruggani, Narayanganj.

BRTC No.: 1103-24312/CE23-24; Dt. 3/6/2024  
 Ref.: Letter: Dt. 3/6/2024  
 Date of Test: 4/6/2024

Samples were received in UNSEALED condition.

Sl. No.	Frog Mark / Identification	Bar Design / Nominal dia.	Actual bar dia.	Unit Weight	Average Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength (YS)	Tensile Load	Tensile Strength	Average Tensile Strength (TS)	TS/YS	Elongation (%)	Average Elongation (%)	Bend Test
1	RICL B420 DWR TMX	16	16.0	1.576	1.584	87.5	435	437	140	695	695	1.59	17	17	-
2	RICL B420 DWR TMX	16	16.1	1.588	1.584	87.5	435	(63500 psi)	140	695	(101000 psi)	1.59	18	17	-
3	RICL B420 DWR TMX	16	16.1	1.588	1.584	88.5	440	-	140	695	-	-	17	-	-
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Conversion factor: 1.0 MPa = 1.0 N/mm<sup>2</sup> = 145 psi. Strengths are based on nominal area.

**ASTM A615M-16 Weight Requirements and Nominal Area of bars (Table A1.1)**

Bar design/Nominal dia., mm	8	10	12	16	20	22	25	28	32	36	40	50	60
Nominal area, sq.mm	50.3	79	113	201	314	360	491	616	804	1018	1257	1963	2827
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Measured unit weight shall not be less than 94% of the nominal weight 8mm bar size is not covered in ASTM A615M-16. Area and weight of 8mm and 22mm dia. bars are derived based on principle followed for other sizes in Table A1.1. Actual dia. and TS/YS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16.

**ASTM A615M-16 Tensile Requirements for Common Steel Grades**

	Grade 60			Grade 75			Grade 80		
	[420]	[520]	[550]	[420]	[520]	[550]	[420]	[520]	[550]
Tensile strength, min. psi [MPa]	90 000 [620]	100 000 [690]	105 000 [725]	90 000 [620]	100 000 [690]	105 000 [725]	90 000 [620]	100 000 [690]	105 000 [725]
Yield strength, min. psi [MPa]	60 000 [420]	75 000 [520]	80 000 [550]	60 000 [420]	75 000 [520]	80 000 [550]	60 000 [420]	75 000 [520]	80 000 [550]
Elongation in 8 in. [200 mm], min. %	10, 12, 16, 20	9	7	10, 12, 16, 20	9	7	10, 12, 16, 20	9	7
Bar Designation No.	28, 32, 36, 40, 50, 60	7	6	28, 32, 36, 40, 50, 60	7	6	28, 32, 36, 40, 50, 60	7	6

**Important Note:** Samples as supplied to us have been tested. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/package/container under the signature of a competent authority. In order to avoid fraudulent fabrication of test results, this report has been printed on a paper that is also recommended that the test results be collected by a duly authorized person.

Countersigned by:  
 Prof. Dr. Hasib Mohammed Ahsan, Test-in-Charge  
 Dept. of Civil Engng., BUET, Dhaka-1000, Bangladesh

Test performed by:  
 Dr. A.B.M. Badruzaman  
 Professor, Dept. of Civil Engng., BUET

06 June 2024







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Sent by: Md. Saifur Rahman Khokon, Managing Director

Rahima Industrial Complex Ltd., Mawna, Duplata, Ruppaji, Narayanganj.

Project: Rahima Industrial Complex Ltd., Mawna, Duplata, Ruppaji, Narayanganj.

Samples were received in UNSEALED condition.

BRTC No.: 1103-24312/CE/23-24; Dt. 3/6/2024

Ref.: Letter, Dt. 3/6/2024

Date of Test: 4/6/2024

Sl. No.	Frog Mark / Identification	Bar Desig./ Nominal dia.	Actual bar dia.	Unit Weight	Average Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength (YS)	Tensile Load	Tensile Strength	Average Tensile Strength (TS)	TS/YYS	Elongation (%)	Average Elongation (%)	Bend Test
1	RICL B420 DWR TMX	20	20.0	2.457	2.472	134	427	428	212	675	680	-	17	17	-
2	RICL B420 DWR TMX	20	20.1	2.497	-	136	433	(62000 psi)	214	680	(98000 psi)	1.59	17	17	-
3	RICL B420 DWR TMX	20	20.0	2.462	-	133	423	-	212	675	-	-	17	17	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Conversion factor: 1.0 MPa = 145 psi. Strengths are based on nominal area.

**ASTM A615M-16 Weight Requirements and Nominal Area of bars (Table A1.1)**

Bar desig./Nominal dia, mm	8	10	12	16	20	22	25	28	32	36	40	50	60
Nominal area, sq.mm	50.3	79	113	201	314	390	491	616	804	1018	1257	1963	2827
Nominal weight, kg/m	0.395	0.617	0.888	1.578	2.486	2.98	3.853	4.834	6.313	7.99	9.865	15.41	22.2

Measured unit weight shall not be less than 94% of the nominal weight. 8mm bar size is not covered in ASTM A615M-16. Area and weight of 8mm and 22mm dia. bars are derived based on principle followed for other sizes in Table A1.1. Actual dia. and TSVS ratio are provided for informative purpose only. These are not requirements of ASTM A615M-16. Actual diameter is the diameter of a perfectly round plain bar having same mass per unit length.

**ASTM A615M-16 Tensile Requirements for Common Steel Grades**

	Grade 60			Grade 75			Grade 80		
	[420]	[520]	[550]	[420]	[520]	[550]	[420]	[520]	[550]
Tensile strength, min. psi [MPa]	90 000 [620]	100 000 [690]	105 000 [725]	90 000 [620]	100 000 [690]	105 000 [725]	90 000 [620]	100 000 [690]	105 000 [725]
Yield strength, min. psi [MPa]	60 000 [420]	75 000 [520]	80 000 [550]	60 000 [420]	75 000 [520]	80 000 [550]	60 000 [420]	75 000 [520]	80 000 [550]
Elongation in 8 in. [200 mm], min. %	10, 12, 16, 20	9	7	10, 12, 16, 20	9	7	10, 12, 16, 20	9	7
Bar Designation No.	28, 32, 36, 40, 50, 60	7	6	28, 32, 36, 40, 50, 60	7	6	28, 32, 36, 40, 50, 60	7	6

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06 June 2024



**Important Note:** Samples as supplied to us have been tested. BRTC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secure and sealed cover/protective container under the signature of a competent authority. In order to avoid fraudulent fabrication of test results, this report has been printed on a security paper. It is also recommended that the test results be collected by a duly authorized person.