	የኢትዮጵያ የተስማሚነት ምዘና ድርጅት Ethiopian Conformity Assessment Enterprise	Document No. TLD/F7.08-1	
		Copy No: -	Rev No: 3
Title: TEST REPORT የፍተሻ ሪፖርት		Page No: 1 of 1	Effective Date: 25 Oct 22


Name and address of client: ECAE Certification Directorate,
 Addis Ababa
 Tel: +251-116-51-82-05
 Fax: --
 E-mail: --
 Date sample Received: 09/09/2024
 Client Sample code: (Brand) CD/BM/0311/17
 Type of sample: Ribbed Steel reinforcement bar ϕ 12mm
 Laboratory Designation Number: 16364077

Test Report No: MTR/1328/17
 Test Order No: 0311
 Reported date: 16/09/2024
 Date of sampling: 11/08/2024
 Place of sampling: Factory
 Sampled and submitted by: Certification Directorate
 Date tested: 10/09/2024
 Method Specification: CES 101:2021

S/ N	Characteristics tested	Test Method/ Specification	Standard Requirements (B500BWR)			Test result	Comment According to grade (B500BWR)
			Min	Nom	Max		
1.	Mass per unit length (Kg/m)	ES ISO 15630-1: 2023 / CES 101:2021	0.835	0.888	0.941	0.863	Pass
2.	Tensile strength Rm (Mpa)		-	-	-	-	-
3.	Upper yield strength, ReH (Mpa)		500	-	-	625	Pass
4.	Characteristics value of Rm/ReH		1.08	-	-	1.15	Pass
5.	Elongation, A (%)		14	-	-	21.7	Pass
6.	Bend test		No crack and rapture observed			No crack and rapture	Pass
7.	Carbon (%)		-	-	0.24	0.20	Pass
8.	Silicon (%)		-	-	0.65	0.21	Pass
9.	Manganese (%)		-	-	1.66	0.58	Pass
10.	Phosphorous (%)		-	-	0.058	0.016	Pass
11.	Sulfur (%)		-	-	0.058	0.039	Pass
12.	Nitrogen (%)		-	-	0.014	0.004	Pass

Remark

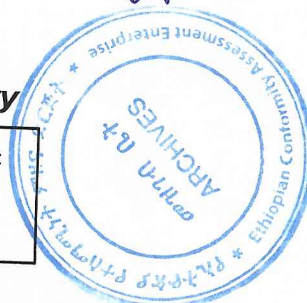
1 This test report relates only to the specific sample product which has been tested by ECAE testing laboratory.


Test report authorized by, Name Liyew Wudie, Position Analyst IV, Sign 

ISO/IEC 17025:2017 Accredited Testing Laboratory

11145

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 BOLE SUBCITY, WOREDA 6
 ADDISABABA, ETHIOPIA



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Title: TEST REPORT የፍተሻ ሪፖርት		Page No: 1 of 1	Effective Date: 25 Oct 22


Name and address of client: ECAE Certification Directorate,
 Addis Ababa
 Tel: +251-116-51-82-05
 Fax: --
 E-mail: --
 Date sample Received: 09/09/2024
 Client Sample code: (Brand) CD/BM/0311/17
 Type of sample: Ribbed Steel reinforcement bar ϕ 16mm
 Laboratory Designation Number: 16364078

Test Report No: MTR/1329/17
 Test Order No: 0311
 Reported date: 16/09/2024
 Date of sampling: 11/08/2024
 Place of sampling: Factory
 Sampled and submitted by: Certification Directorate
 Date tested: 10/09/2024
 Method Specification: CES 101:2021

S/ N	Characteristics tested	Test Method/ Specification	Standard Requirements (B500BWR)			Test result	Comment According to grade (B500BWR)
			Min	Nom	Max		
1.	Mass per unit length (Kg/m)	ES ISO 15630-1: 2023 / CES 101:2021	1.50	1.58	1.66	1.52	Pass
2.	Tensile strength Rm (Mpa)		-	-	-	-	-
3.	Upper yield strength, ReH (Mpa)		500	-	-	608	Pass
4.	Characteristics value of Rm/ReH		1.08	-	-	1.14	Pass
5.	Elongation, A (%)		14	-	-	22.5	Pass
6.	Bend test		No crack and rapture observed			No crack and rapture	Pass
7.	Carbon (%)		-	-	0.24	0.16	Pass
8.	Silicon (%)		-	-	0.65	0.21	Pass
9.	Manganese (%)		-	-	1.66	0.63	Pass
10.	Phosphorous (%)		-	-	0.058	0.017	Pass
11.	Sulfur (%)		-	-	0.058	0.027	Pass
12.	Nitrogen (%)		-	-	0.014	0.004	Pass

Remark

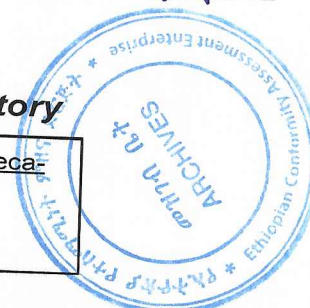
1 This test report relates only to the specific sample product which has been tested by ECAE testing laboratory.


Test report authorized by, Name Liyew Wudie, Position Analyst IV, Sign 

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 ADDISABABA, ETHIOPIA



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		Copy No: -	Rev No: 3
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Name and address of client: ECAE Certification Directorate,
 Addis Ababa
 Tel: +251-116-51-82-05
 Fax: --
 E-mail: --
 Date sample Received: 09/09/2024
 Client Sample code: (Brand) CD/BM/0311/17
 Type of sample: Ribbed Steel reinforcement bar ϕ 24mm
 Laboratory Designation Number: 16364079

Test Report No: MTR/1330/17


Test Order No: 0311
 Reported date: 16/09/2024
 Date of sampling: 11/08/2024

Place of sampling: Factory
 Sampled and submitted by: Certification Directorate
 Date tested: 10/09/2024
 Method Specification: CES 101:2021

S/ N	Characteristics tested	Test Method/ Specification	Standard Requirements (B500BWR)			Test result	Comment According to grade (B500BWR)
			Min	Nom	Max		
1.	Mass per unit length (Kg/m)	ES ISO 15630-1: 2023 / CES 101:2021	3.36	3.50	3.64	3.47	Pass
2.	Tensile strength Rm (Mpa)		-	-	-	-	-
3.	Upper yield strength, ReH (Mpa)		500	-	-	597	Pass
4.	Characteristics value of Rm/ReH		1.08	-	-	1.16	Pass
5.	Elongation, A (%)		14	-	-	21.7	Pass
6.	Bend test		No crack and rapture observed			No crack and rapture	Pass
7.	Carbon (%)		-	-	0.24	0.19	Pass
8.	Silicon (%)		-	-	0.65	0.21	Pass
9.	Manganese (%)		-	-	1.66	0.66	Pass
10.	Phosphorous (%)		-	-	0.058	0.021	Pass
11.	Sulfur (%)		-	-	0.058	0.035	Pass
12.	Nitrogen (%)		-	-	0.014	0.004	Pass

Remark

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Test report authorized by, Name Liyew Wudie, Position Analyst IV, Sign 

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 Web site: www.eca-e.com
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 ADDISABABA, ETHIOPIA



	የኢትዮጵያ የተስማሚነት ምዘና ድርጅት Ethiopian Conformity Assessment Enterprise	Document No. TLD/F7.08-1	
		Copy No: -	Rev No: 3
Title: TEST REPORT የፍተሻ ሪፖርት		Page No: 1 of 1	Effective Date: 25 Oct 22

Name and address of client: ECAE Certification Directorate,
Addis Ababa

Tel: +251-116-51-82-05

Fax: --

E-mail: --

Date sample Received: 09/09/2024

Client Sample code: (Brand) CD/BM/0311/17

Test Report No: MTR/1331/17

Test Order No: 0311

Reported date: 16/09/2024

Date of sampling: 11/08/2024

Place of sampling: Factory

Sampled and submitted by: Certification Directorate

Date tested: 10/09/2024 – 16/09/2024

Method Specification: CES 101:2021


Type of sample: Ribbed Steel reinforcement bar ϕ 32mm

Laboratory Designation Number: 16364080

S/N	Characteristics tested	Test Method/ Specification	Standard Requirements (B500BWR)			Test result	Comment According to grade (B500BWR)
			Min	Nom	Max		
1.	Mass per unit length (Kg/m)	ES ISO 15630-1: 2023 / CES 101:2021	6.06	6.31	6.56	6.11	Pass
2.	Tensile strength Rm (Mpa)		-	-	-	-	-
3.	Upper yield strength, ReH (Mpa)		500	-	-	561	Pass
4.	Characteristics value of Rm/ReH		1.08	-	-	1.17	Pass
5.	Elongation, A (%)		14	-	-	17.2	Pass
6.	Bend test		-	-	-	-	-
7.	Carbon (%)		-	-	0.24	0.16	Pass
8.	Silicon (%)		-	-	0.65	0.24	Pass
9.	Manganese (%)		-	-	1.66	0.83	Pass
10.	Phosphorous (%)		-	-	0.058	0.017	Pass
11.	Sulfur (%)		-	-	0.058	0.031	Pass
12.	Nitrogen (%)		-	-	0.014	0.003	Pass

Remark

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