					KE	Kenya Bureau of Standards Standards for Quality life
E-M	+254 (0) 20 6009660 lail:info@kebs.org bsite: www.kebs.org	Labora	tory Test	Report		KEBS Centre, Popo Road P.O. Box 54974, 00200 Nairobi Tel.: +254 (0) 20 6005490, 6005506
		DD	TX 7			Page 1 of 1
				AIE	SAMPLE	
-	RT UID: Sample Ref. No:	20210119162552-V1 BS202101943				
Date	: 26 April, 2021					
1. Desc	cription of Sample:	Reinforcement Steel Bars	;			
2. Sam	ple Submitted by:	Tononoka Rolling Mills			6. Lab Ref:	KEBS/TES/MEC-NAR/M/21
3. Cust	comer Contact:	Timothy Nduati			7. Date of Receipt:	21 April, 2021 🔍 🔍 🖒
4. Cust	omers Ref No:	Private			8. Date Analysis Started 9. Sample Submission Fo	: 22 April, 2021
5. Cust	tomer's Address:	P.O Box 44689-00100, Nairo	bi, Kenya		J. Janpie Jubinision (×111 10. 244112
	-	ovided by the customer:				SP
D8 – TN	NK 8 B500BWR					. n toreo
	-	d number of specification a				15 Firm
		TANDARD Steel for reinforcemen lethod(s) of test: as listed i			010	1 CON
				ABORATORY TES	TREPORT	21 April, 2021 : 22 April, 2021 prm No: 244112
No.	Parameters			Results	Requirements	Test Method No. LOD
1.	Bend			No cracks	shall show neither rupture nor cracks visible to the a person o normal or corrected vision	
2.	Mass/metre run	k	g/m	0.384	0.363-0.427	EAS 412-2
3.	Re-bend		C	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2
4.	Tensile strength	11 ^N	aterila			
I	Elongation (Grade	e 500)	%	21	14Min	EAS 412-2
1	Specified Charact I Rm/ReH(500)	eristic Value of	Rm/Reh	1.18	1.08Min	EAS 412-2
I	II Yield stress (Grad	e 500) I	N/mm²	587	500Min	EAS 412-2
5	nistee and					

The sample performed as shown

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Charles Mugambi - Laboratory Analyst (Mechanical)

FOR: MANAGING DIRECTOR

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	mple Ref. No:	20210119164547-V1 BS202101944	RIV	ATE S	SAMPLE	Page 1 of 1
	6 April, 2021	Reinforcement Steel B	ars			
I. Descrip	tion of Sample.	Kennorcement Steer B				
2. Sample	e Submitted by:	Tononoka Rolling Mills			6. Lab Ref:	KEBS/TES/MEC-NAR/M/21
	ner Contact: ners Ref No:	Timothy Nduati Private			7. Date of Receipt: 8. Date Analysis Started:	21 April, 2021 22 April, 2021 m No: 244112
5. Custor	ner's Address: P.O I	80x 44689-00100, Nairobi	, Kenya		9. Sample Submission For	m No: 244112
	onal Information p					ect
customer	: D10 – TNK 10 B50	OBWR				. e5 P2
11. Accep	tance criteria-title a	nd number of specificatio	on against which	it is tested:		in mee
				ncrete-Part 2: Ribbed Bars	eta	ilsonfit.
12. Parar	neters tested and r	Aethod(s) of test: as list		LABORATORY TEST	REPORT	
No.	Parameters			Results	Requirements	Test Method No. LOD
1. 6	Bend			No cracks	shall show neither rupture nor cracks visible to the a person o normal or corrected vision	
2. 1	Mass/metre run		kg/m	0.611	0.58-0.654	EAS 412-2
3. I	Re-bend		5	S No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2
4. 1	Tensile strength		ivatenil	.d		
I	Elongation (Grad	e 500)	0%	23	14Min	EAS 412-2
11	Specified Charac Rm/ReH(500)	eristic Value of	Rm/Reh	1.16	1.08Min	EAS 412-2
	Yield stress (Grad	le 500)	N/mm²	579	500Min	EAS 412-2
Th	rela stress (Grad	X				

The sample performed as shown

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REPORT UID: KEBS Sample Ref. No: Date: 26 April, 2021	20210119164671-V1 BS202101945	VATE S	SAMPLI	Page 1 of 1
1. Description of Sample:	Reinforcement Steel Bars			
2. Sample Submitted by:	Tononoka Rolling Mills		6. Lab Ref:	KEBS/TES/MEC-NAR/M/21
3. Customer Contact: 4. Customers Ref No:	Timothy Nduati Private		7. Date of Receipt: 8. Date Analysis Started: 9. Sample Submission Form	21 April, 2021 22 April, 2021 No: 244112
5. Customer's Address: P	.O Box 44689-00100, Nairobi, Kenya			x o'
-			s	21 April, 2021 22 April, 2021 No: 244112
12. Parameters tested ar	nd Method(s) of test: as listed in the	e report below:	Not?	CON
		LABORATORY TEST	REPORT	
No. Parameters		Results	Requirements	Test Method No. LOD
1. Bend		No cracks	shall show neither rupture no cracks visible to the a person o normal or corrected vision	
2. Mass/metre run	kg/m	0.872	0.835-0.941	EAS 412-2
3. Re-bend		No cracks	Shall not fracture or show cracks at the bend, visible to	EAS 412-2

Kenya Bureau of

26 April, 2021

Date of Issue

the naked eye

4.	Tensile strength	
4.	Tensile strength	

т	ensile strength	ivat mi				
I	% Elongation	201%	20	14Min	EAS 412-2	
11	Specified Characteristic Value of Rm/ReH(500)	100	1.15	1.08Min	EAS 412-2	
111	Yield stress (Grade 500)	N/mm²	559	500Min	EAS 412-2	
n'sc	urce and					

COMMENTS/REMARKS:

The sample performed as shown

Charles Mugambi - Laboratory Analyst (Mechanical)	
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REPORT KEBS Sa	UID: mple Ref. No:	20210119165318-V2 BS202101946	RIV	ATE	SAMPLE	Page 1 of 1
Date:2	6 April, 2021					
1. Descri	ption of Sample:	Reinforcement Steel Ba	irs			
2. Sampl	e Submitted by:	Tononoka Rolling Mills			6. Lab Ref:	KEBS/TES/MEC-NAR/M/21
3. Custor	ner Contact:	Timothy Nduati			7. Date of Receipt:	21 April, 2021
4. Custor	ners Ref No:	Private			8. Date Analysis Started: 9. Sample Submission For	21 April, 2021 22 April, 2021 m No: 244112 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
5. Custo	mer's Address: P.O E	3ox 44689-00100, Nairobi,	Kenya		· · · ·	01
10. Additi	onal Information p	rovided by the				ech
customer	: D16 - TNK 16 B500	DBWR				25P
11 Accor	tanco critoria titlo a	ad number of specificatio	n against which	it is tostad:		in the co
-		nd number of specificatio STANDARD Steel for reinf	-		Barc	S LEITH
EA3 412-2	ZUI9 EAST AFRICAN	STANDARD Steel for Teilin	orcement of co	icrete-Part 2. Ribbed	Dais	11 onl
12. Para	meters tested and N	/lethod(s) of test: as list	ed in the repor	t below:	2º1	00
				LABORATORY TE	EST REPORT	
No.	Parameters			Results	Requirements	Test Method No. LOD
1.	Bend			No cracks	shall show neither rupture nor cracks visible to the a person o normal or corrected vision	
2.	Mass/metre run		kg/m	1.552 110 1	1.501-1.659	EAS 412-2
3.	Re-bend		2	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2
4.	Tensile strength		Vatmil	·& ·		
I	Elongation (Grad	e 500)	5%	22	14Min	EAS 412-2
11	Specified Charac Rm/ReH(500)	teristic Value of	Rm/Reh	1.17	1.08Min	EAS 412-2
	Yield stress (Grad	de 500)	N/mm²	584	500Min	EAS 412-2
Th	is report	×				

The sample performed as shown

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Charles Mugambi - Laboratory Analyst (Mechanical)

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	RT UID: Sample Ref. No:	20210119166122-V2 BS202101947	RIV	ATE	SAMP	LE	Page 1 of 1
Date	26 April, 2021						
1. Des	cription of Sample:	Reinforcement Steel Ba	rs				
2. Sam	ple Submitted by:	Tononoka Rolling Mills			6. Lab Ref:	KEBS/TES/MEC	-NAR/M/21
	comer Contact: comers Ref No:	Timothy Nduati Private			7. Date of Receipt: 8. Date Analysis St	tarted: 22 April, 2021	the
5 Cust	tomer's Address. P ()	Box 44689-00100, Nairob	i Kenva		9. Sample Submiss	ion Form No: 244112	30
	litional Information		i, Keliya				- ct
	er: D20 - TNK 20 B50	-				-	e
						Se e	8
	-	and number of specification	-			intm	
EAS 41	2-2:2019 EAST AFRICA	N STANDARD Steel for reir	forcement of c	oncrete-Part 2: Ribbe	d Bars	il'aft	
12. Pa	rameters tested and	Method(s) of test: as lis	ted in the rep	ort below:		Let'a co	
		.,		LABORATORY		9 01	
No.	Parameters			Results	Requirements	Test Method N	lo. LOD
1.	Bend			No cracks	shall show neither rup cracks visible to the a normal or corrected v	person of EAS 412-2	
2.	Mass/metre run		kg/m	2.421	2.346-2.593	EAS 412-2	
3.	Re-bend		14	No cracks	Shall not fracture or sl cracks at the bend, vis the naked eye		
4.	Tensile strength		ivateni	18.			
I	Elongation (Gra	de 500)	0%	19	14Min	EAS 412-2	
1	Specified Chara I Rm/ReH(500)	cteristic Value of	Rm/Reh	1.15	1.08Min	EAS 412-2	
1	II Yield stress(Gra	de 500)	N/mm²	561	500Min	EAS 412-2	
5	II Yield stress(Gra						

The sample performed as shown

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Charles Mugambi - Laboratory Analyst (Mechanical)

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	RT UID: Sample Ref. No:	20210119165539-V2 BS202101949	NIN	ATE	SAMPLE	Page 1 of 1
Date :	26 April, 2021					
1. Desc	ription of Sample:	Reinforcement Steel Ba	rs-			
2. Sam	ple Submitted by:	Tononoka Rolling Mills			6. Lab Ref:	KEBS/TES/MEC-NAR/M/21
3. Cust	omer Contact:	Timothy Nduati			7. Date of Receipt:	21 April, 2021
4. Cust	omers Ref No:	Private			8. Date Analysis Started: 9. Sample Submission For	21 April, 2021 22 April, 2021 m No: 244112
5. Cust	comer's Address: P.O I	3ox 44689-00100, Nairobi,	Kenya			0
10. Add	litional Information p	rovided by the				ect
custom	er: D25 - TNK 25 B500	BWR				105 N
11. Acc	eptance criteria-title a	nd number of specification	n against whicl	n it is tested:		in me
EAS 412	2-2:2019 EAST AFRICAN	STANDARD Steel for reinf	orcement of co	oncrete-Part 2: Ribbed	Bars	15 fit
12 Dou	ramators tostad and N	/lethod(s) of test: as liste	d in the rene	rt holow:	eto	i con
12. Fai	ameters tested and r			LABORATORY TE	EST REPORT	
No.	Parameters			Results	Requirements	Test Method No. LOD
1.	Bend			No cracks	shall show neither rupture nor cracks visible to the a person o normal or corrected vision	
2.	Mass/metre run		kg/m	3.742	3.696-4.004	EAS 412-2
3.	Re-bend) El	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2
4.	Tensile strength		Vatmi	.0		
	Elongation (Grad	e 500)	%	20	14Min	EAS 412-2
 _	Specified Charac I Rm/ReH(500)	teristic Value of	Rm/Reh	1.17	1.08Min	EAS 412-2
 _	II Yield stress (Grad	le 500)	N/mm²	568	500Min	EAS 412-2
5	nis report					

The sample performed as shown

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Charles Mugambi - Laboratory Analyst (Mechanical)

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REPORT KEBS Sa	۲ UID: ample Ref. No:	20210119159737-V2 BS202101951	RIV	ATE	SAMPLE	Page 1 of 1
Date :	26 April, 2021					
1. Descri	iption of Sample:	Reinforcement Steel Ba	irs			
2. Samp	le Submitted by:	Tononoka Rolling Mills			6. Lab Ref:	KEBS/TES/MEC-NAR/M/21
3. Custo	mer Contact:	Timothy Nduati			7. Date of Receipt:	21 April, 2021
4. Custo	mers Ref No:	Private			8. Date Analysis Started: 9. Sample Submission For	21 April, 2021 22 April, 2021 m No: 244112 500000000000000000000000000000000000
5. Custo	mer's Address: P.O I	3ox 44689-00100, Nairobi,	Kenya			0
10. Addit	ional Information p	rovided by the				ect
custome	r: D 32- TNK 32 B500	BWR				esP
11. Acce	ntance criteria-title a	nd number of specificatio	n against which	it is tested		In Theo
		STANDARD Steel for reinf	-		irs	15 KITT
2.10 122					.0	IT ON T
12. Para	meters tested and N	Aethod(s) of test: as list	ed in the repor	t below:	de	6
				LABORATORY TES	T REPORT	
No.	Parameters			Results	Requirements	Test Method No. LOD
1.	Bend			No cracks	shall show neither rupture nor cracks visible to the a person o normal or corrected vision	
2.	Mass/metre run		kg/m	6.187	6.061-6.566	EAS 412-2
3.	Re-bend		C	No cracks	Shall not fracture or show cracks at the bend, visible to the naked eye	EAS 412-2
4.	Tensile strength		vatenil'	ð.,		
1	Elongation (Grad	e 500)	5%	24	14Min	EAS 412-2
	Specified Charac Rm/ReH(500)	teristic Value of	Rm/Reh	1.20	1.08Min	EAS 412-2
	Yield stress (Grad	le 500)	N/mm²	572	500Min	EAS 412-2
27	is repard					

The sample performed as shown

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