

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

M/S YAMAC Engineering and Construction. Faisalabad

Reference # CED/TFL <u>3506 (Dr. Rizwan Azam)</u>

Reference of the request letter # Nil

Dated: 20-06-2023

Dated: 20-06-2023

Tension Test Report (Page – 1/1)

Date of Test 26-06-2022 Gauge length 2 inches

Description Welded SS Pipe Steel Strip Bend Test

Bend Test

Strip taken from Welded SS Pipe Root Bend Test Through 180° is Satisfactory

Strip taken from Welded SS Pipe Face Bend Test Through 180° is Satisfactory

Only two samples for tensile and two samples for bend test

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Construction of Boundary Wall along Periphery of Allama Iqbal Industrial City near
Sahiwala Interchange M-4 Motorway, Faisalabad. Procurement No. AIIC-05

Reference # CED/TFL <u>3530 (Dr. Rizwan Azam)</u>

Reference of the request letter # CRE/AIIC-05/Lab/419

Dated: 23-06-2023

Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.385	3	0.380	0.11	0.113	3900	5600	78200	75910	112300	109000	1.00	12.5	u
2	0.384	3	0.379	0.11	0.113	4400	5800	88200	85990	116300	113400	0.80	10.0	Kamran Steel
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Note: only two samples for tensile and one sample for bend test										ı		1
#3	Note: only two samples for tensile and one sample for bend test Bend Test Bar Bend Test Through 180° is Satisfactory													
#3	Dai Dell	u rest	i iii ougi	1 100 1	Sausia	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer

NESPAK

Construction of Flyover / Underpass at Akbar Chowk Lahore.

(Revised: Signal Free Corridor)

Reference # CED/TFL <u>3531 (Dr. Rizwan Azam)</u>

Reference of the request letter # 3772/103/ACF/SA/04/84

Dated: 23-06-2023

Dated: 19-06-2023

Tension Test Report (Page # 1/3)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.372	3	0.373	0.11	0.109	3500	5000	70200	70510	100200	100800	1.30	16.3	n
2	0.373	3	0.374	0.11	0.110	3500	4900	70200	70400	98200	98600	1.00	12.5	Batala Premium
-	-	-	-	-	-	-	-	-	-	-	-	-	-	B. Pre
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Through	180° i	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer

NESPAK

Construction of Flyover / Underpass at Akbar Chowk Lahore.

(Revised: Signal Free Corridor)

Reference # CED/TFL <u>3531 (Dr. Rizwan Azam)</u>

Reference of the request letter # 3772/103/ACF/SA/04/89

Dated: 23-06-2023

Dated: 19-06-2023

Tension Test Report (Page # 2/3)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	4.266	10	1.264	1.27	1.254	37000	55200	64300	65040	95800	97100	1.50	18.8	n
2	4.265	10	1.263	1.27	1.254	36600	55000	63600	64360	95500	96800	1.40	17.5	Batala Premium
-	-	-	-	-	-	-	-	-	-	-	-	-	-	B. Pre
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		Note: only two samples for tensile and one sample for bend test												
		Bend Test												
#10) Bar Be	nd Test	Throug	gh 180°	is Satist	factory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer

NESPAK

Construction of Flyover / Underpass at Akbar Chowk Lahore.

(Revised: Signal Free Corridor)

Reference # CED/TFL <u>3531 (Dr. Rizwan Azam)</u>

Reference of the request letter # 3772/103/ACF/SA/04/90

Dated: 23-06-2023

Dated: 19-06-2023

Tension Test Report (Page # 3/3)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	5.325	11	1.412	1.56	1.565	46600	64000	65900	65620	90500	90200	1.90	23.8	ш
2	5.327	11	1.412	1.56	1.566	47400	64600	67000	66730	91300	91000	1.60	20.0	Batala Premium
-	-	-	-	-	-	-	_	-	-	-	-	-	-	B. Pre
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	'est						
#11	Bar Be	nd Test	Throug	gh 180°	is Satist	factory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Manager Allied Bank Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL <u>3533 (Dr. Rizwan Azam)</u>

Reference of the request letter # ABL/AMC/MALL/18/23

Dated: 23-06-2023

Dated: 23-06-2023

Tension Test Report (Page -1/1)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Weight					Yield load	Breaking Load					Elongation	longation	Remarks
(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
4.355	10	1.277	1.27	1.280	39000	54400	67700	67150	94500	93700	1.70	21.3	eel
4.283	10	1.266	1.27	1.259	38800	54400	67400	67930	94500	95300	1.60	20.0	Amreli Steel
4.320	10	1.272	1.27	1.270	40200	55200	69800	69770	95800	95900	1.70	21.3	Amr
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
				Not	e: only th	ree samj	ple for te	nsile test	ı	ı	ı	T	
						D 15							
						Bend T	est						
	(tJ/sqI) 4.355 4.283	(#) 4.355 10 4.283 10 4.320 10	(linch) (H) (H) (H) (H) (H) (H) (H) (H) (H) (H	(lps/tt)	(1) (1) (2) (1) (2)	(Lag) (Lag)	(kg) (kg) (kg) (kg) (kg) (kg) 4.355 10 1.277 1.27 1.280 39000 54400 4.283 10 1.266 1.27 1.259 38800 54400 4.320 10 1.272 1.27 1.270 40200 55200 - - - - - - - - - - - - - - - - - - - - - - - - - - - - Note: only three samples	(kg) (kg) <th< td=""><td> The state of the late of the</td><td> The state of the late of the</td><td> The color of the</td><td> The state of the late of the</td><td> Columbia Columbia</td></th<>	The state of the late of the	The state of the late of the	The color of the	The state of the late of the	Columbia Columbia

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK Construction of Underpass at Samanabad Morr Lahore.

Reference # CED/TFL <u>3534 (Dr. Rizwan Azam)</u>

Reference of the request letter # 4403/03/AZ/Lab/Steel-59

Dated: 23-06-2023

Dated: 10-05-2023

Tension Test Report (Page # 1/5)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.374	3	0.374	0.11	0.110	3600	4700	72200	72100	94200	94200	1.20	15.0	
2	0.367	3	0.370	0.11	0.108	3400	4500	68200	69530	90200	92100	1.10	13.8	Kisan
-	-	-	-	-	-	-	_	-	-	-	-	-	-	X
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1	ı	
	Note: only two samples for tensile and one sample for bend test Bend Test													
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

Resident Engineer NESPAK

Construction of Underpass at Samanabad Morr Lahore.

Reference # CED/TFL <u>3534 (Dr. Rizwan Azam)</u>

Reference of the request letter # 4403/03/AZ/Lab/Steel-66

Dated: 23-06-2023

Dated: 30-05-2023

Tension Test Report (Page # 2/5)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		ieter/ ze		rea n²)	Yield load	Breaking Load		Stress osi)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.367	3	0.370	0.11	0.108	3600	4500	72200	73610	90200	92100	0.90	11.3	
2	0.362	3	0.368	0.11	0.107	3600	4600	72200	74490	92200	95200	1.30	16.3	Kisan
-	-	-	-	-	-	-	-	-	-	-	-	-	-	×
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	Note: only two samples for tensile and one sample for bend test								test			I
	D D	Bend Test Through 180° is Satisfactory												
#3	Bar Ben	d Test	I'hrough	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK

Construction of Underpass at Samanabad Morr Lahore.

Reference # CED/TFL <u>3534 (Dr. Rizwan Azam)</u>

Reference of the request letter # 4403/03/AZ/Lab/Steel-41

Dated: 23-06-2023

Dated: 12-04-2023

Tension Test Report (Page # 3/5)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	R
1	0.374	3	0.374	0.11	0.110	3100	4700	62200	62230	94200	94400	1.40	17.5	5 Ster
2	0.381	3	0.377	0.11	0.112	3100	4800	62200	61060	96200	94600	1.20	15.0	5 S
3	4.260	10	1.263	1.27	1.252	41400	57400	71900	72880	99700	101100	1.50	18.8	Ittefaq
4	4.241	10	1.260	1.27	1.247	40400	56400	70200	71430	97900	99800	1.50	18.8	Itte
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	te: only	four s	amples f	or tensile	and two	samples	for bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

#10 Bar Bend Test Through 180° is Satisfactory

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK

Construction of Underpass at Samanabad Morr Lahore.

Reference # CED/TFL <u>3534 (Dr. Rizwan Azam)</u>

Reference of the request letter # 4403/03/AZ/Lab/Steel-37

Dated: 23-06-2023

Dated: 30-03-2023

Tension Test Report (Page # 4/5)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diam Si			rea n²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.379	3	0.377	0.11	0.111	4400	5400	88200	87010	108200	106800	0.90	11.3	
2	0.373	3	0.373	0.11	0.110	4300	5300	86200	86540	106200	106700	0.90	11.3	Kisan
-	-	-	-	-	-	-	-	-	-	-	-	-	-	X
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test		l	
			Note: only two samples for tensile and one sample for bend test											
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer NESPAK

Construction of Underpass at Samanabad Morr Lahore.

Reference # CED/TFL **3534** (Dr. Rizwan Azam)

Reference of the request letter # 4403/03/AZ/Lab/Steel-47

Dated: 23-06-2023

Dated: 14-04-2023

Tension Test Report (Page # 5/5)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	R
1	4.240	10	1.260	1.27	1.246	45400	60000	78800	80280	104200	106100	1.60	20.0	
2	4.251	10	1.261	1.27	1.250	47200	61000	82000	83260	105900	107600	1.50	18.8	Ittefaq
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-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
			Note: only two samples for tensile and one sample for bend test											
							Bend T	est						
#10) Bar Be	nd Test	Throug	gh 180°	is Satist	factory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

Ref: <u>CED/TFL/06/3535</u> Dated: <u>23-06-2023</u>

Dated of Test: 26-06-2023

To

Assistant Director (QCD) WASA, LDA, Lahore (M/s Allah Hoo Yasir RCC Pipes Factory)

Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE (MARK: TFL/06/3535)

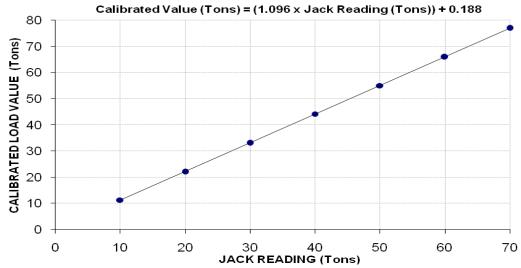
Reference to your Letter No. QCD/1133-34, Dated: 15/06/2023 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 200 (Ton) Calibrated Range : Zero - 70 (Ton)

Hydraulic Jack Readin (Ton)	ng	10	20	30	40	50	60	70
Calibrated Load	(kg)	10200	20000	30000	40100	50000	59900	69900
Calibrated Load	(Ton)	11.23	22.02	33.03	44.15	55.06	65.96	76.97

1000 Kg = 1.1011 Ton

Calibration Curve For Jack



I/C Testing Laboratoires UET Lahore, Pakistan.

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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Asst Dir Lab Defence Housing Authority, Bahawalpur (M/s Sheikhoo Steel for Enlistment at DHAB)

Reference # CED/TFL <u>3536 (Dr. Rizwan Azam)</u>
Reference of the request letter # 530/QC/MTL
Dated: 23-06-2023

Tension Test Report (Page -1/1)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diam Si			rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.368	3	0.371	0.11	0.108	3400	4800	68200	69320	96200	97900	1.20	15.0	0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Sheikhoo Steel
-	-	ı	-	ı	-	-	-	-	-	-	-	-	-	Sh
-	-	ı	-	1	-	-	-	-	-	-	-	-	-	
-	-	ı	ı	1	-	-	-	-	-	-	-	-	-	
-	-	ı	-	1	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	I	Π	
							D 17	<u> </u>						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ectory	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Asst Dir Lab Defence Housing Authority, Bahawalpur (M/s Amir Steel Re-Rolling Mills for Enlistment at DHA B

Reference # CED/TFL <u>3538 (Dr. Rizwan Azam)</u>
Reference of the request letter # 530/QC/MTL
Dated: 23-06-2023

Tension Test Report (Page -1/1)

Date of Test 26-06-2023 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.370	3	0.372	0.11	0.109	3200	4900	64200	64900	98200	99400	1.30	16.3	sel
-	0.364	3	0.369	0.11	0.107	3100	4800	62200	63840	96200	98900	1.30	16.3	Amir Steel
-	0.370	3	0.372	0.11	0.109	3200	4800	64200	64890	96200	97400	1.20	15.0	Am
-	ı	-	-	ı	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
Note: only three sample for tensile and two samples for bend test														
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								
#3	Bar Ben	d Test	Γhrough	18 0° i s	s Satisfa	ctory	·		·		·			

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples