



**STRUCTURAL ENGINEERING DIVISION**  
**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 **3787** (Dr. M Rizwan Riaz)  
Reference of the request letter # YAM-WPS-003

Dated: 24-08-2023  
Dated: 24-08-2023

**Tension Test Report** (Page – 1/1)

Date of Test 25-08-2023  
Gauge length 2 inches  
Description Welded Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
	---	(mm)	(mm <sup>2</sup> )	(kg)	(MPa)	(inch)		
1	Welded Plate	25.50x10.40	265.20	15600	577.06	0.60	30.00	Failure at the location other than weld
2		25.50x10.10	257.55	15500	590.39	0.60	30.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

**Only two samples for tensile and four samples for bend test**

**Bend Test**

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

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

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

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

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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To,

Director Projects  
Sheikhoo Sugar Mills (Steel Division)  
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3789** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 25-08-2023  
Dated: 22-08-2023

**Tension Test Report** (Page -1/4)

Date of Test 25-08-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.409	10	9.93	0.12	0.120	3900	5400	71650	71590	99207	99200	1.30	16.3	885R
2	0.406	10	9.90	0.12	0.119	3800	5400	69812	70240	99207	99900	1.40	17.5	886R
3	0.413	10	9.98	0.12	0.121	3700	5300	67975	67200	97370	96300	1.30	16.3	887R
4	0.412	10	9.98	0.12	0.121	3700	5300	67975	67270	97370	96400	1.30	16.3	888R
5	0.413	10	9.98	0.12	0.121	3700	5300	67975	67200	97370	96300	1.30	16.3	889R
6	0.412	10	9.97	0.12	0.121	3600	5200	66138	65580	95533	94800	1.30	16.3	890R
7	0.412	10	9.97	0.12	0.121	3700	5300	67975	67370	97370	96500	1.30	16.3	891R
8	0.412	10	9.98	0.12	0.121	3900	5500	71650	70920	101044	100100	1.40	17.5	892R
9	0.416	10	10.03	0.12	0.122	3700	5300	67975	66650	97370	95500	1.30	16.3	893R
10	0.416	10	10.02	0.12	0.122	3700	5300	67975	66760	97370	95700	1.30	16.3	894R

**Note: only Ten samples for tensile test**

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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Bend Test														

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To,

Director Projects  
Sheikhoo Sugar Mills (Steel Division)  
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3789** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 25-08-2023  
Dated: 22-08-2023

**Tension Test Report** (Page -2/4)

Date of Test 25-08-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.417	10	10.04	0.12	0.123	3800	5300	69812	68310	97370	95300	1.40	17.5	895R
2	0.415	10	10.00	0.12	0.122	3700	5300	67975	66930	97370	95900	1.40	17.5	896R
3	0.415	10	10.01	0.12	0.122	3700	5300	67975	66910	97370	95900	1.20	15.0	897R
4	0.414	10	10.00	0.12	0.122	3700	5300	67975	66980	97370	96000	0.90	11.3	898R
5	0.409	10	9.94	0.12	0.120	3600	5300	66138	65940	97370	97100	1.40	17.5	899R
6	0.408	10	9.93	0.12	0.120	3700	5200	67975	67960	95533	95600	1.40	17.5	900R
7	0.409	10	9.94	0.12	0.120	3800	5300	69812	69590	97370	97100	1.50	18.8	901R
8	0.411	10	9.96	0.12	0.121	3700	5400	67975	67500	99207	98500	1.50	18.8	902R
9	0.412	10	9.97	0.12	0.121	3700	5300	67975	67350	97370	96500	1.40	17.5	903R
10	0.415	10	10.01	0.12	0.122	3900	5500	71650	70500	101044	99500	1.40	17.5	904R
<b>Note: only Ten samples for tensile test</b>														

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Bend Test


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To,

Director Projects  
Sheikhoo Sugar Mills (Steel Division)  
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3789** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 25-08-2023  
Dated: 22-08-2023

**Tension Test Report** (Page -3/4)

Date of Test 25-08-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.411	10	9.96	0.12	0.121	3600	5300	66138	65760	97370	96900	1.40	17.5	905R
2	0.410	10	9.95	0.12	0.121	3700	5300	67975	67660	97370	97000	1.50	18.8	906R
3	0.410	10	9.95	0.12	0.120	3800	5400	69812	69560	99207	98900	1.50	18.8	907R
4	0.407	10	9.92	0.12	0.120	3600	5200	66138	66250	95533	95700	1.50	18.8	908R
5	0.416	10	10.02	0.12	0.122	3700	5300	67975	66750	97370	95700	1.30	16.3	909R
6	0.414	10	10.00	0.12	0.122	3600	5300	66138	65220	97370	96100	1.30	16.3	910R
7	0.416	10	10.02	0.12	0.122	3800	5300	69812	68460	97370	95500	1.40	17.5	911R
8	0.403	10	9.87	0.12	0.119	3700	5200	67975	68800	95533	96700	1.40	17.5	912R
9	0.405	10	9.88	0.12	0.119	3600	5200	66138	66720	95533	96400	1.20	15.0	913R
10	0.405	10	9.89	0.12	0.119	3700	5300	67975	68500	97370	98200	1.50	18.8	914R
<b>Note: only Ten samples for tensile test</b>														

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Bend Test


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To,

Director Projects  
Sheikhoo Sugar Mills (Steel Division)  
Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **3789** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 25-08-2023  
Dated: 22-08-2023

**Tension Test Report** (Page -4/4)

Date of Test 25-08-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.404	10	9.88	0.12	0.119	3600	5300	66138	66760	97370	98300	1.50	18.8	915R
2	0.409	10	9.94	0.12	0.120	3900	5200	71650	71460	95533	95300	1.30	16.3	916R
3	0.413	10	9.99	0.12	0.121	3900	5400	71650	70810	99207	98100	1.40	17.5	917R
4	0.409	10	9.93	0.12	0.120	3900	5300	71650	71570	97370	97300	1.50	18.8	918R
5	0.412	10	9.98	0.12	0.121	3900	5300	71650	70920	97370	96400	1.50	18.8	919R
6	0.418	10	10.04	0.12	0.123	3700	5300	67975	66440	97370	95200	1.50	18.8	920R
7	0.413	10	9.99	0.12	0.121	3900	5500	71650	70820	101044	99900	1.40	17.5	921R
8	0.407	10	9.92	0.12	0.120	3900	5300	71650	71770	97370	97600	1.40	17.5	922R
9	0.405	10	9.89	0.12	0.119	3800	5300	69812	70270	97370	98100	1.20	15.0	923R
10	0.409	10	9.94	0.12	0.120	3900	5400	71650	71430	99207	98900	1.40	17.5	924R
<b>Note: only Ten samples for tensile test</b>														

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Bend Test


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To,  
Resident Engineer,  
Orbit Housing  
The Spring Apartment Homes

Reference # CED/TFL **3790** (Dr. M Rizwan Riaz)  
Reference of the request letter# NIL

Dated: 25-08-2023  
Dated: 25-08-2023

**Tension Test Report** (Page -1/1)

Date of Test 25-08-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.385	3	0.380	0.11	0.113	3400	5000	68200	66180	100200	97400	1.10	13.8	
2	0.375	3	0.375	0.11	0.110	3500	5000	70200	70010	100200	100100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Asst Dir Infra  
 Defence Housing Authority, Gujranwala  
 "Sector G"

Reference # CED/TFL **3794** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2B/2001

Dated: 25-08-2023  
 Dated: 24-07-2023

**Tension Test Report** (Page -1/1)

Date of Test 25-08-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.394	3	0.384	0.11	0.116	3640	5420	73000	69340	108600	103300	0.90	11.3	Siraj Steel
2	0.393	3	0.383	0.11	0.116	3670	5400	73600	70030	108200	103100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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