



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

To,  
 Muhammad Saad-ur-Rehman  
 Model Town, Lahore

Reference # CED/TFL **3904** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 13-09-2023  
 Dated: 13-09-2023

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

Date of Test 14-09-2023  
 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	0.379	3	0.376	0.11	0.111	4100	5300	82200	81210	106200	105000	0.90	11.3	
2	0.372	3	0.373	0.11	0.109	4000	5200	80200	80650	104200	104900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 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](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



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

To,  
 Project Engineer  
 Baig Construction Co  
 Construction of Jinnah Square Mall, Raiwind Road, Lahore.

Reference # CED/TFL **3900** (Dr. Rizwan Azam)  
 Reference of the request letter # ST/UET/12092023/3000

Dated: 13-09-2023  
 Dated: 12-09-2023

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

Date of Test 14-09-2023  
 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	0.396	3	0.385	0.11	0.116	3400	5000	68200	64330	100200	94700	1.50	18.8	SJ Steel
2	0.396	3	0.385	0.11	0.116	3300	4900	66200	62440	98200	92800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 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](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



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

To,

Deputy Director (Technical)  
 Anti-Corruption Establishment  
 Multan Region, Multan  
 (Establishment of Govt. Associate College for Girls Dokota, Mailsi, Vehari.)  
 (Enquiry No. 244/23, ACE Multan)

Reference # CED/TFL **3903** (Dr. Rizwan Azam)

Dated: 13-09-2023

Reference of the request letter # ACE.MR-(Enq-244/23)/6157

Dated: 07-09-2023

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

Date of Test

14-09-2023

Gauge length

8 inches

Description

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

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.382	3/8	0.378	0.11	0.112	3600	4500	72200	70730	90200	88500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 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](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



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

To,

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

Reference # CED/TFL **3905** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 13-09-2023

Dated: 12-09-2023

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

Date of Test 14-09-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.11	0.109	3200	4700	64200	64490	94200	94800	1.40	17.5	301-S
2	0.371	3	0.373	0.11	0.109	3300	4600	66200	66650	92200	93000	1.40	17.5	302-S
3	0.374	3	0.374	0.11	0.110	3200	4700	64200	64240	94200	94400	1.30	16.3	303-S
4	0.371	3	0.373	0.11	0.109	3300	4700	66200	66630	94200	94900	1.50	18.8	304-S
5	0.371	3	0.373	0.11	0.109	3400	4600	68200	68700	92200	93000	1.30	16.3	305-S
6	0.372	3	0.373	0.11	0.109	3700	4900	74200	74660	98200	98900	0.90	11.3	306-S
7	0.371	3	0.373	0.11	0.109	3400	4600	68200	68720	92200	93000	1.30	16.3	307-S
8	0.367	3	0.370	0.11	0.108	3300	4600	66200	67500	92200	94100	1.40	17.5	308-S
9	0.367	3	0.371	0.11	0.108	3300	4800	66200	67410	96200	98100	1.40	17.5	309-S
10	0.367	3	0.370	0.11	0.108	3400	4800	68200	69540	96200	98200	1.30	16.3	310-S
11	0.373	3	0.374	0.11	0.110	3300	4700	66200	66370	94200	94600	1.60	20.0	311-S
12	0.381	3	0.378	0.11	0.112	3500	4700	70200	68890	94200	92500	1.30	16.3	312-S

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

Bend Test														

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

Note:

- 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](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



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

To,

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

Reference # CED/TFL **3905** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 13-09-2023

Dated: 12-09-2023

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

Date of Test 14-09-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.376	0.11	0.111	3500	4700	70200	69620	94200	93500	1.40	17.5	313-S
2	0.371	3	0.373	0.11	0.109	3400	4800	68200	68700	96200	97000	1.30	16.3	314-S
3	0.378	3	0.376	0.11	0.111	3500	4700	70200	69450	94200	93300	1.20	15.0	315-S
4	0.378	3	0.376	0.11	0.111	3500	4700	70200	69470	94200	93300	1.30	16.3	316-S
5	0.371	3	0.372	0.11	0.109	3500	4800	70200	70840	96200	97200	1.40	17.5	317-S
6	0.374	3	0.374	0.11	0.110	3400	4700	68200	68120	94200	94200	1.20	15.0	318-S
7	0.374	3	0.374	0.11	0.110	3200	4700	64200	64150	94200	94300	1.50	18.8	319-S
8	0.376	3	0.375	0.11	0.110	3300	4700	66200	65900	94200	93900	1.60	20.0	320-S
9	0.372	3	0.373	0.11	0.109	3200	4600	64200	64490	92200	92700	1.40	17.5	321-S
10	0.370	3	0.372	0.11	0.109	3500	4700	70200	70950	94200	95300	1.10	13.8	322-S
11	0.368	3	0.371	0.11	0.108	3500	4700	70200	71280	94200	95800	1.20	15.0	323-S
12	0.369	3	0.372	0.11	0.109	3500	4700	70200	71070	94200	95500	1.10	13.8	324-S

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

Bend Test														

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

Note:

- 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](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



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

To,

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

Reference # CED/TFL **3905** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 13-09-2023

Dated: 12-09-2023

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

Date of Test 14-09-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3	0.374	0.11	0.110	3400	4700	68200	68320	94200	94500	1.20	15.0	325-S
2	0.370	3	0.372	0.11	0.109	3500	4700	70200	70890	94200	95200	1.20	15.0	326-S
3	0.364	3	0.369	0.11	0.107	3300	4600	66200	68000	92200	94800	1.30	16.3	327-S
4	0.363	3	0.368	0.11	0.107	3500	4700	70200	72340	94200	97200	1.30	16.3	328-S
5	0.368	3	0.371	0.11	0.108	3400	4600	68200	69220	92200	93700	1.20	15.0	329-S
6	0.368	3	0.371	0.11	0.108	3400	4800	68200	69320	96200	97900	1.40	17.5	330-S
7	0.372	3	0.373	0.11	0.109	3500	4800	70200	70630	96200	96900	1.20	15.0	331-S
8	0.370	3	0.372	0.11	0.109	3500	4700	70200	71000	94200	95400	1.20	15.0	332-S
9	0.375	3	0.374	0.11	0.110	3200	4700	64200	64050	94200	94100	1.50	18.8	333-S
10	0.375	3	0.375	0.11	0.110	3300	4700	66200	65970	94200	94000	1.60	20.0	334-S
11	0.372	3	0.373	0.11	0.109	3200	4700	64200	64490	94200	94800	1.30	16.3	335-S

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

Bend Test														

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

Note:

- 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](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



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

To,

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

Reference # CED/TFL **3905** (Dr. Rizwan Azam)  
Reference of the request letter # Nil

Dated: 13-09-2023

Dated: 12-09-2023

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

Date of Test

14-09-2023

Gauge length

8 inches

Description

Deformed Steel Bar Tensile 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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.376	0.11	0.111	3300	4700	66200	65580	94200	93500	1.50	18.8	336-S
2	0.373	3	0.374	0.11	0.110	3300	4700	66200	66330	94200	94500	1.30	16.3	337-S
3	0.377	3	0.376	0.11	0.111	3700	4800	74200	73630	96200	95600	1.20	15.0	338-S
4	0.373	3	0.373	0.11	0.110	3300	4700	66200	66420	94200	94600	1.40	17.5	339-S
5	0.375	3	0.375	0.11	0.110	3300	4700	66200	65920	94200	93900	1.30	16.3	340-S
6	0.373	3	0.374	0.11	0.110	3400	4700	68200	68340	94200	94500	1.30	16.3	341-S
7	0.368	3	0.371	0.11	0.108	3500	4700	70200	71280	94200	95800	1.30	16.3	342-S
8	0.374	3	0.374	0.11	0.110	3400	4600	68200	68120	92200	92200	1.40	17.5	343-S
9	0.375	3	0.375	0.11	0.110	3200	4700	64200	64010	94200	94100	1.50	18.8	344-S
10	0.366	3	0.370	0.11	0.108	3300	4600	66200	67540	92200	94200	1.20	15.0	345-S
11	0.365	3	0.369	0.11	0.107	3400	4700	68200	69950	94200	96700	1.40	17.5	346-S

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

Bend Test														

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

Note:

- 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](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



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

To,

Executive Engineer  
 Highway Division, Hafizabad  
 (Re-Construction of Road from Kaleke Tibba to Hafizabad Khanqah Dogran Road via  
 Kale Mandi Punj Pulla and Burj Dara Length = 7.59 kms (km 0.00 to 4.70 & 5.29 to 7.59 km =  
 7.00 kms) in District Hafizabad)  
 Reference # CED/TFL **3908** (Dr. Rizwan Azam) Dated: 13-09-2023  
 Reference of the request letter # 1991/MCB Dated: 10-08-2023

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

Date of Test 14-09-2023  
 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	0.377	3	0.376	0.11	0.111	3500	4700	70200	69640	94200	93600	1.30	16.3	
2	0.378	3	0.376	0.11	0.111	3500	4700	70200	69520	94200	93400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 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](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





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

To,

Sub Divisional Officer  
Buildings Sub Division  
Nankana Sahib  
(Reconstruction of Dangerous Building at GGPS Rajab Tehsil & District Nankana Sahib)

Reference # CED/TFL **3917** (Dr. M Kashif)  
Reference of the request letter # 575/SDO/BSO/NNS

Dated: 14-09-2023  
Dated: 04-04-2023

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

Date of Test 15-09-2023  
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	0.376	3	0.375	0.11	0.111	3400	4800	68200	67770	96200	95700	1.40	17.5	
2	0.376	3	0.375	0.11	0.111	3800	4800	76200	75750	96200	95700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 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](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



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

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

**Note:**

- 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](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