



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

To,

Resident Engineer  
ESS-I-AAR Consultant Dera Ghazi Khan  
Rehabilitation / Construction of Metalled Road from Shero Chowk to Boys Primary  
School Malkani Qalandar with Link to Basti Muhammad Khan, Jalwala and Basti Nallah  
Banohan, Length = 7.05 km.

Reference # CED/TFL **3676** (Dr. Usman Akmal)  
Reference of the request letter # ADP 21-22/1008

Dated: 27-07-2023  
Dated: 22-07-2023

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

Date of Test 03-08-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3/8	0.375	0.11	0.110	3300	5200	66200	65910	104200	103900	1.20	15.0	Super Ahsan Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,

Resident Engineer  
 NESPAK  
 Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore  
 (Mughal Steel)

Reference # CED/TFL **3686** (Dr. Usman Akmal)

Dated: 01-08-2023

Reference of the request letter# 4537/03/MSA/09/94

Dated: 21-07-2023

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

Date of Test 03-08-2023

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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.086	10	1.237	1.27	1.201	45400	59000	78800	83330	102400	108300	1.30	16.3	B-308
2	4.075	10	1.235	1.27	1.198	45600	59000	79200	83910	102400	108600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Note: only two sample for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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[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)
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**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 Sinaco Engineers (Pvt) Ltd  
Lahore

(Construction of Ghani Ceramics Limited Wall Tile at FIEDMC, Sahianwala, Faisalabad)

Reference # CED/TFL **3688** (Dr. Usman Akmal)  
Reference of the request letter # 00337-2023

Dated: 01-08-2023  
Dated: 31-07-2023

**Tension Test Report** (Page -1/2)

Date of Test 03-08-2023  
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	0.358	3	0.366	0.11	0.105	3100	4600	62200	64900	92200	96300	1.30	16.3	Ittehad Steel
2	0.364	3	0.369	0.11	0.107	3100	4600	62200	63890	92200	94800	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.**

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**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 Sinaco Engineers (Pvt) Ltd  
 Lahore  
 (Construction of National Foods Galaxy Project at FIEDMC, Sahianwala, Faisalabad)

Reference # CED/TFL **3688** (Dr. Usman Akmal)  
 Reference of the request letter # 00338-2023

Dated: 01-08-2023  
 Dated: 31-07-2023

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

Date of Test 03-08-2023  
 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	0.376	3	0.375	0.11	0.111	3300	4900	66200	65780	98200	97700	1.30	16.3	Ittehad Steel
2	0.363	3	0.368	0.11	0.107	3200	4800	64200	66170	96200	99300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Head QA/QC  
 Al-A'Zamiyya Block Phase I  
 Lahore

Reference # CED/TFL **3690** (Dr. Usman Akmal)  
 Reference of the request letter# Alz./ST/003

Dated: 01-08-2023  
 Dated: 01-08-2023

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

Date of Test 03-08-2023  
 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	0.368	3	0.371	0.11	0.108	3900	4900	78200	79370	98200	99800	1.20	15.0	
2	0.376	3	0.375	0.11	0.111	3900	4900	78200	77790	98200	97800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Note: only two sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,

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

Reference # CED/TFL **3691** (Dr. Usman Akmal)

Dated: 02-08-2023

Reference of the request letter # Nil

Dated: 01-08-2023

**Tension Test Report** (Page -1/2)

Date of Test 03-08-2023

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	0.412	10	9.98	0.12	0.121	3600	5300	66138	65490	97370	96500	1.50	18.8	509R
2	0.409	10	9.94	0.12	0.120	3700	5300	67975	67840	97370	97200	1.40	17.5	510R
3	0.410	10	9.96	0.12	0.121	3600	5200	66138	65770	95533	95000	1.40	17.5	514R
4	0.407	10	9.92	0.12	0.120	3700	5200	67975	68090	95533	95700	1.20	15.0	515R
5	0.407	10	9.91	0.12	0.120	3500	5200	64301	64480	95533	95800	1.40	17.5	516R
6	0.404	10	9.88	0.12	0.119	3600	5200	66138	66830	95533	96600	1.30	16.3	517R
7	0.412	10	9.97	0.12	0.121	3700	5300	67975	67390	97370	96600	1.40	17.5	518R
8	0.408	10	9.93	0.12	0.120	3800	5300	69812	69760	97370	97300	1.40	17.5	519R
9	0.409	10	9.94	0.12	0.120	3800	5300	69812	69590	97370	97100	1.30	16.3	521R
10	0.398	10	9.80	0.12	0.117	3600	5200	66138	67830	95533	98000	1.40	17.5	523R

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

Bend Test														

**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,

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

Reference # CED/TFL **3691** (Dr. Usman Akmal)

Dated: 02-08-2023

Reference of the request letter # Nil

Dated: 01-08-2023

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

Date of Test 03-08-2023

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	0.401	10	9.84	0.12	0.118	3600	5200	66138	67270	95533	97200	1.40	17.5	524R
2	0.399	10	9.82	0.12	0.117	3700	5200	67975	69520	95533	97700	1.40	17.5	525R
3	0.405	10	9.89	0.12	0.119	3700	5300	67975	68430	97370	98100	1.30	16.3	526R
4	0.403	10	9.86	0.12	0.118	3600	5200	66138	66980	95533	96800	1.30	16.3	527R
5	0.405	10	9.89	0.12	0.119	3800	5300	69812	70310	97370	98100	1.30	16.3	528R
6	0.406	10	9.90	0.12	0.119	3800	5400	69812	70200	99207	99800	1.50	18.8	529R
7	0.406	10	9.91	0.12	0.119	3700	5300	67975	68270	97370	97800	1.40	17.5	530R
8	0.405	10	9.89	0.12	0.119	3700	5300	67975	68460	97370	98100	1.30	16.3	531R
9	0.400	10	9.82	0.12	0.117	3700	5300	67975	69410	97370	99500	1.30	16.3	532R
10	0.399	10	9.81	0.12	0.117	3700	5200	67975	69600	95533	97900	1.40	17.5	533R

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

Bend Test														

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

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

To,

Resident Engineer  
 G3 Engineering Consultant (Pvt) Ltd.  
 Consultancy Services for Master Planning Designing and Resident Type Supervision of  
 The Scheme Strengthening of University of Narowal.

Reference # CED/TFL **3692** (Dr. Usman Akmal)  
 Reference of the request letter # G3/UON-RE

Dated: 02-08-2023  
 Dated: 02-08-2023

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

Date of Test 03-08-2023  
 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	0.356	3	0.365	0.11	0.105	3500	4600	70200	73760	92200	97000	0.90	11.3	Agha Steel
2	0.365	3	0.370	0.11	0.107	4000	5000	80200	82140	100200	102700	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.**

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

To,

Resident Engineer  
 G3 Engineering Consultant (Pvt) Ltd.  
 Consultancy Services for Master Planning Designing and Resident Type Supervision of  
 The Scheme Strengthening of University of Narowal.

Reference # CED/TFL **3693** (Dr. Usman Akmal)  
 Reference of the request letter # G3/UON-RE

Dated: 02-08-2023  
 Dated: 02-08-2023

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

Date of Test 03-08-2023  
 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	0.370	3	0.372	0.11	0.109	3400	4900	68200	68970	98200	99400	1.30	16.3	F.F Steel
2	0.371	3	0.372	0.11	0.109	3500	4900	70200	70820	98200	99200	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**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer,  
 Orbit Housing  
 The Spring Apartment Homes

Reference # CED/TFL **3697** (Dr. Ali Ahmed)  
 Reference of the request letter# NIL

Dated: 03-08-2023  
 Dated: 03-08-2023

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

Date of Test 03-08-2023  
 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	0.369	3	0.372	0.11	0.108	3400	4700	68200	69090	94200	95500	1.20	15.0	
2	0.368	3	0.371	0.11	0.108	3200	4700	64200	65130	94200	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 Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,  
 Asst Dir Infra  
 Defence Housing Authority, Gujranwala  
 "Sector K."

Reference # CED/TFL **3698** (Dr. Ali Ahmed)  
 Reference of the request letter # 111/15/AD/RS/Lab/Sec-K/345

Dated: 03-08-2023  
 Dated: 01-08-2023

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

Date of Test 03-08-2023  
 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	4.165	10	1.248	1.27	1.224	36600	52400	63600	65900	91000	94400	1.60	20.0	Siraj Steel
2	4.194	10	1.253	1.27	1.233	36600	52600	63600	65440	91300	94100	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 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