



**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 The Lake City Developers (Pvt.) Limited  
Lahore

Reference # CED/TFL **2339** (Dr. Rizwan Azam)  
Reference of the request letter # LCRG/Test/011

Dated: 23-11-2022

Dated: 23-11-2022

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

Date of Test 28-11-2022  
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	0.109	3300	4800	66200	66990	96200	97500	1.50	18.8	
2	0.370	3	0.372	0.11	0.109	3300	4800	66200	66880	96200	97300	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														

Witness by M. Bilal (Site Inspector Unison Pvt)

**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  
 AZ Engineering Associates  
 Widening / Rehabilitation / Construction of Road from 151/NB to 1453/NB, 154/NB and  
 156/NB Length 12.60 km in District Sargodha.

Reference # CED/TFL **2348** (Dr. Rizwan Azam)  
 Reference of the request letter # RE/AZEA/SGD/162

Dated: 25-11-2022  
 Dated: 20-11-2022

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

Date of Test 28-11-2022  
 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	3500	4800	70200	69730	96200	95700	1.30	16.3	
2	0.375	3	0.374	0.11	0.110	3300	4500	66200	66070	90200	90100	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.**

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To,

Dy. Manager Q.A & Q.C  
PIEDMC  
Chunian Aqua Business Park, Chunian

Reference # CED/TFL **2352** (Dr. Rizwan Azam)  
Reference of the request letter # PIE/CABP/QAQC/MSL/11

Dated: 25-11-2022  
Dated: 24-11-2022

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

Date of Test 28-11-2022  
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	3200	4800	64200	65120	96200	97700	1.20	15.0	Batala
2	0.373	3	0.374	0.11	0.110	3200	4700	64200	64260	94200	94400	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.**

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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 Muneeb Ali Hamza  
 Lahore

Reference # CED/TFL **2353** (Dr. Rizwan Azam)  
 Reference of the request letter # Nil

Dated: 25-11-2022  
 Dated: 25-11-2022

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

Date of Test 28-11-2022  
 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	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3	0.373	0.11	0.109	3500	4900	70200	70720	98200	99000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
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,

Resident Engineer  
 NESPAK  
 Remodeling of Main Boulevard from Liberty Chowk to Kalma Chowk (CBD Square ).  
 Lahore.

Reference # CED/TFL **2354** (Dr. Rizwan Azam)

Dated: 25-11-2022

Reference of the request letter # 4500/13/05/II/AZL/07

Dated: 21-11-2022

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

Date of Test 28-11-2022

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	4.207	10	1.255	1.27	1.237	36800	54800	63900	65590	95200	97700	1.40	17.5	Bata Premium
2	4.287	10	1.267	1.27	1.260	40000	53200	69500	69970	92400	93100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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To,

Resident Engineer  
 NESPAK  
 Dualization of Road from G.T Road (Samma) Gujrat Dinga Road 1/C Gujrat Flyover  
 Length 31 km in District Gujrat.

Reference # CED/TFL **2355** (Dr. Rizwan Azam)  
 Reference of the request letter # 4364/03/CRM/01/22/027

Dated: 28-11-2022  
 Dated: 21-11-2022

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

Date of Test 28-11-2022  
 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	0.398	3	0.386	0.11	0.117	4200	5400	84200	79060	108200	101700	1.20	15.0	FF Steel
2	0.378	3	0.376	0.11	0.111	3900	5100	78200	77320	102200	101200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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To,

Head / Manager Projects  
 Shaukat Khanum Memorial Trust  
 Construction of Multi-Storied Parking Garage SKMCH & RC, Lahore

Reference # CED/TFL **2357** (Dr. Rizwan Azam)  
 Reference of the request letter # SKM/PG/UET/10/19

Dated: 28-11-2022  
 Dated: 28-11-2022

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

Date of Test 28-11-2022  
 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	0.389	3	0.382	0.11	0.114	3500	5100	70200	67440	102200	98300	1.30	16.3	
2	0.391	3	0.383	0.11	0.115	3600	5100	72200	69050	102200	97900	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:

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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,  
 Chief Technical Officer  
 Sheekhoo Sugar Mills (Steel Division)  
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2359** (Dr. Rizwan Azam)  
 Reference of the request letter #Nil

Dated: 28-11-2022  
 Dated: 27-11-2022

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

Date of Test 28-11-2022  
 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	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.375	0.11	0.111	3400	4700	68200	67700	94200	93600	1.50	18.8	511
2	0.380	3	0.377	0.11	0.112	3500	4900	70200	68990	98200	96600	1.40	17.5	530
3	0.378	3	0.376	0.11	0.111	3500	4900	70200	69400	98200	97200	1.30	16.3	532
4	0.374	3	0.374	0.11	0.110	3600	5000	72200	72100	100200	100200	1.60	20.0	534
5	0.371	3	0.372	0.11	0.109	3400	4700	68200	68810	94200	95200	1.50	18.8	546
6	0.378	3	0.376	0.11	0.111	3500	4800	70200	69510	96200	95400	1.40	17.5	548
7	0.377	3	0.375	0.11	0.111	3600	5000	72200	71680	100200	99600	1.50	18.8	550
<b>Note: only seven samples for tensile test</b>														
Bend Test														

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

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

To,

Project Manager  
 Defence Housing Authority  
 Gujranwala  
 "Sector C"

Reference # CED/TFL **2364** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/15/PM/RS/Pkg-2A/842

Dated: 28-11-2022  
 Dated: 17-11-2022

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

Date of Test 28-11-2022  
 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	0.366	3	0.370	0.11	0.108	3200	4900	64200	65490	98200	100300	1.60	20.0	Nonee Steel
2	0.357	3	0.366	0.11	0.105	3200	4900	64200	67180	98200	102900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Witness by Hafiz Danish (L.T DHA Lab)

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

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