



**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  
Asian Consulting Engineers Pvt. Ltd.  
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)  
Engineering Design & Construction Supervision of Cluster South-I.

Reference # CED/TFL **4323** (Dr. Usman Akmal)

Dated: 07-12-2023

Reference of the request letter # AsCE/PRSWSSP/CSI/P-06/2510

Dated: 05-12-2023

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

Date of Test 12-12-2023

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	0.366	3	0.370	0.11	0.108	3670	4910	73600	75220	98400	100700	1.00	12.5	Sheikhoo Steel
2	0.368	3	0.371	0.11	0.108	3770	4960	75600	76870	99400	101200	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



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To,  
Sr. Manager Engineering  
Shangrila Foods (Private) Limited  
Karachi

Reference # CED/TFL **4326** (Dr. Usman Akmal)  
Reference of the request letter # Nil

Dated: 08-12-2023  
Dated: 04-12-2023

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

Date of Test 12-12-2023  
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	0.419	3	0.396	0.11	0.123	4560	5710	91400	81610	114500	102200	1.00	12.5	
2	0.417	3	0.395	0.11	0.123	4430	5560	88800	79620	111500	100000	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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To,  
 Assistant Director  
 (Building Section)  
 Defence Housing Authority, Gujranwala  
 “Construction of 6 Marla Villas (Block E)”

Reference # CED/TFL **4327** (Dr. Usman Akmal)  
 Reference of the request letter # 111/3/AD Bldgs/Lab/1300

Dated: 08-12-2023  
 Dated: 22-11-2023

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

Date of Test 12-12-2023  
 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	0.366	3	0.370	0.11	0.108	3420	5050	68600	70090	101200	103500	1.30	16.3	AK Supreme
2	0.379	3	0.377	0.11	0.111	3620	5120	72600	71640	102600	101400	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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**Pakistan. Ph: 92-42-99029202**

To,

Aamir Shahzad Alvi  
M/S High-Q Constructions  
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **4333** (Dr. Usman Akmal)  
Reference of the request letter # QC/HQ/CIVIL/165

Dated: 11-12-2023  
Dated: 08-12-2023

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

Date of Test 12-12-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend 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	0.415	10	10.01	0.12	0.122	4000	5300	73487	72250	97370	95800	1.20	15.0	
2	0.411	10	9.97	0.12	0.121	4080	5320	74956	74360	97737	97000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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**UET Lahore, Pakistan.**

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To,  
 M/S Meezan Developers  
 Lahore  
 (Construction of Jamia tur Rasheed Lahore Campus.)

Reference # CED/TFL **4335** (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 11-12-2023  
 Dated: 11-12-2023

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

Date of Test 12-12-2023  
 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	0.372	3	0.373	0.11	0.109	3740	4760	75000	75320	95400	95900	1.20	15.0	
2	0.364	3	0.369	0.11	0.107	3820	4840	76600	78770	97000	99900	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														

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