



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

To,  
 Chief Executive  
 Eastern Construction Co.  
 Construction of 60 CUM/HR Capacity WWTP for Fauji Fresh N Freeze Limited Project at  
 sahiwal

Reference # CED/TFL **37281** (Dr. M Rizwan Riaz)

Dated: 01-11-2021

Reference of the request letter # ECC/UET/FFL-SWL/2021/34

Dated: 01-11-2021

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

Date of Test

02-11-2021

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	0.374	3	0.374	0.11	0.110	4100	5000	82200	82250	100200	100400	0.80	10.0	
2	0.371	3	0.373	0.11	0.109	4000	4900	80200	80750	98200	99000	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														

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

Note:

- 1- You can See your reports On Internet in the following web site  
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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,  
 Addl. Dir. (Works)  
 The Punjab Employees Social Security Institution  
 Construction of Social Security Health Facility at Taunsa.

Reference # CED/TFL **37285** (Dr. M Rizwan Riaz)  
 Reference of the request letter # SS.WW.(206)21/273

Dated: 01-11-2021  
 Dated: 01-11-2021

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

Date of Test 02-11-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.412	3/8	0.393	0.11	0.121	5000	6000	100200	91040	120300	109300	0.80	10.0	
2	0.409	3/8	0.391	0.11	0.120	5000	6000	100200	91650	120300	110000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
 Resident Engineer  
 ACE, Danish School  
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar

Reference # CED/TFL **37287** (Dr. M Rizwan Riaz)

Dated: 01-11-2021

Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/455

Dated: 14-10-2021

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

Date of Test 02-11-2021

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	0.385	3/8	0.380	0.11	0.113	4100	5700	82200	79850	114300	111100	0.90	11.3	
2	0.386	3/8	0.380	0.11	0.113	4000	5700	80200	77710	114300	110800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples 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.**

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**University of Engineering and Technology Lahore, 54890**  
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To,  
M/S Project Design System  
Lahore

Reference # CED/TFL 37292 (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 02-11-2021

Dated: 26-10-2021

**Tension Test Report** (Page – 1/1)

Date of Test 02-11-2021

Gauge length 2 inches

Description Plate Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	8	43.30x8.30	359.39	10200	16200	278	442	0.50	25.00	
2	20	43.50x20.20	878.70	23000	38700	257	432	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

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To,  
 Construction Manager  
 Deevar Developers Pvt. Ltd  
 Construction of Zameen Opal, Plot No. 16, Sector-A, Land Breeze Housing Society, Raiwind Road, Lahore  
 Reference # CED/TFL 37294 (Dr. Rizwan Azam) Dated: 02-11-2021  
 Reference of the request letter # ZD/ZO/L/038 Dated: 01-11-2021

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

Date of Test 02-11-2021  
 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	0.395	3	0.384	0.11	0.116	3700	5400	74200	70250	108200	102600	1.00	12.5	
2	0.380	3	0.377	0.11	0.112	3500	5200	70200	69120	104200	102700	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,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Construction of 1 Kanal Houses NGV DRGCC DHA Phase-VI) – (M/s Linker Developers (Pvt) Ltd)  
Reference # CED/TFL 37295 (Dr. Asad Ali) Dated: 02-11-2021  
Reference of the request letter # 408/241/E/Lab/152/187 Dated: 02-11-2021

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

Date of Test 02-11-2021  
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	3520	5560	70600	73680	111500	116400	1.20	15.0	Afco Steel
2	0.359	3	0.366	0.11	0.105	3470	5500	69600	72530	110200	115000	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														

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