



**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 Projex  
Lahore  
(Engro Enfrashare)

Reference # CED/TFL 1770 (Dr. Qasim Khan)  
Reference of the request letter # PCPi/Eng-06

Dated: 12-08-2022  
Dated: 10-06-2022

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

Date of Test 19-08-2022  
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	0.394	10	9.75	0.12	0.116	3800	5100	69812	72360	93696	97200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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<b>Note: only one sample for tensile test</b>														
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



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To,  
 QA/QC Manager  
 Zameen Developers  
 Construction of Mall-35

Reference # CED/TFL **1803** (Dr. Qasim Khan)  
 Reference of the request letter # ZD/MALL-35/GSW/01

Dated: 18-08-2022  
 Dated: 18-08-2022

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

Date of Test 19-08-2022  
 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	0.402	3	0.388	0.11	0.118	3500	4700	70200	65300	94200	87700	0.75	9.4	Pak Steel	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Note: only one sample for tensile test</b>															
Bend Test															

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**UET Lahore, Pakistan.**

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To,  
 Asst Dir (Infra Dev)  
 Defence Housing Authority  
 Gujranwala

Reference # CED/TFL **1805** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/15/PE/RS/Pkg-1A/579

Dated: 19-08-2022  
 Dated: 18-08-2022

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

Date of Test 19-08-2022  
 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	5.244	11	1.401	1.56	1.541	46800	65400	66200	66930	92400	93600	1.60	20.0	FF Steel
2	5.017	11	1.370	1.56	1.475	46800	64200	66200	69950	90800	96000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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  
 Orbit Developes Private Limited  
 The Springs Atrium, Gulberg Lahore

Reference # CED/TFL **1806** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 19-08-2022  
 Dated: 19-08-2022

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

Date of Test 19-08-2022  
 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	0.313	3	0.342	0.11	0.092	3310	4910	66400	79340	98400	117700	1.50	18.8	
2	0.301	3	0.335	0.11	0.088	3210	4740	64400	80060	95000	118300	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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