



**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 Sheikh Younis & Sons Constructions  
Gulberg III, Lahore

Reference # CED/TFL **3018** (Dr. Rizwan Azam)  
Reference of the request letter # Nil

Dated: 30-03-2023

Dated: 30-03-2023

**Tension Test Report** (Page – 1/1)

Date of Test 03-04-2023  
Gauge length 2 inches  
Description Plate & Angle Iron Steel Strip Tensile Test

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	Plate	26.60x15.70	417.62	-----	22200	-----	521	0.90	45.00	
2	Angle Iron	26.60x15.60	414.96	-----	23600	-----	558	0.70	35.00	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

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To,

M/S Pakistan Wire Industries (Pvt) Limited  
Karachi  
(HCTCHISON PORTS KICT)

Reference # CED/TFL **3020** (Dr. Rizwan Azam)

Dated: 30-03-2023

Reference of the request letter # WRD/0006/LAB006

Dated: 30-03-2023

**Tension Test Report** (Page – 1/1)

Date of Test 03-04-2023

Description Steel Wire Rope (WRC) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	25	2.58	36000	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

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**UET Lahore, Pakistan.**

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To,  
 M/S CKD Seeds & Fertilizer  
 Sheikhpura Road Near Mini Stadium, Gujranwala

Reference # CED/TFL **3030** (Dr. Rizwan Azam)  
 Reference of the request letter# NIL

Dated: 31-03-2023  
 Dated: 31-03-2023

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

Date of Test 03-04-2023  
 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	0.402	3	0.388	0.11	0.118	2900	4200	58200	54040	84200	78300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**Note: only one sample for tensile and one sample for bend test**

Bend Test

#3 Bar Bend Test Through 180° is Satisfactory

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

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To,  
 Resident Engineer,  
 Orbit Housing  
 The Spring Apartment Homes

Reference # CED/TFL **3033** (Dr. Rizwan Azam)  
 Reference of the request letter# NIL

Dated: 03-04-2023  
 Dated: 03-04-2023

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

Date of Test 03-04-2023  
 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	0.359	3	0.367	0.11	0.106	4500	5500	90200	93920	110200	114800	0.90	11.3	
2	0.357	3	0.365	0.11	0.105	4400	5500	88200	92540	110200	115700	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														

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

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To,  
 Resident Engineer,  
 Orbit Housing  
 The Spring Apartment Homes

Reference # CED/TFL **3034** (Dr. Rizwan Azam)  
 Reference of the request letter# NIL

Dated: 03-04-2023  
 Dated: 03-04-2023

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

Date of Test 03-04-2023  
 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	4400	5500	88200	92230	110200	115300	0.90	11.3	
2	0.357	3	0.366	0.11	0.105	4500	5500	90200	94500	110200	115500	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,

Ameen Firdous  
Civil Engineer & Technologies  
Prime Builders  
Construction of Apartment Building at 45-B Gulberg III, Lahore

Reference # CED/TFL **3035** (Dr. Rizwan Azan)  
Reference of the request letter # PB/45-B/09

Dated: 03-04-2023  
Dated: 03-04-2023

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

Date of Test 03-04-2023  
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	0.402	3	0.388	0.11	0.118	3700	5400	74200	69020	108200	100800	1.20	15.0	
2	0.409	3	0.391	0.11	0.120	3700	5500	74200	67910	110200	101000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
M/S Descon Oxychem Limited  
Lahore

Reference # CED/TFL **3027** (Dr. Rizwan Azam)  
Reference of the request letter# NIL

Dated: 31-03-2023  
Dated: 27-03-2023

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

Date of Test 03-04-2023  
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	0.371	10	9.47	0.12	0.109	4300	5100	78998	86850	93696	103100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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