

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

To, General Manager AYQ Developers Lahore

Reference # CED/TFL <u>36130 (Dr. Usman Akmal)</u>

Reference of the request letter Nil

Dated: 25-02-2021

Dated: 25-02-2021

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

Date of Test 26-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Diameter/ size   Area (in²)   Foad   Foad (in²)   Yield Stress (psi)   Ultimate Stress (psi)   Ultimat												% Elongation	Remarks
S	(lbs/ft) Nominal Nominal Nominal Actual Actual Actual Actual Actual Actual Actual Actual													Ŗ
1	1 0.377 3 0.376 0.11 0.111 3000 4400 60200 59620 88200 87500 1.20 15.0													el
2	2 0.383 3 0.379 0.11 0.113 3400 4300 68200 66490 86200 84100 1.60 20.0													
3	3 0.392 3 0.383 0.11 0.115 3200 4300 64200 61200 86200 82300 1.50 18.8													
Note: only three samples for tensile and one sample for bend test														
#3	Bend Test #3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



# 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

Dualization of Sargodha Mainwali Road (Phase-I) Group-III, from km 284.44 to 285.42 (Bridge & Approaches) in District Mianwali

Reference # CED/TFL <u>36131 (Dr. Usman Akmal)</u>
Reference of the request letter # RE/MWI-177

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

Date of Test 26-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)		rea 1 <sup>2</sup> )	Yield load	Yield load Breaking Load		Yield Stress (psi)		e Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.381	3/8	0.378	0.11	0.112	3400	5700	68200	66920	114300	112200	1.20	15.0	oiz
2	1     0.381     3/8     0.378     0.11     0.112     3400     5700     68200     66920     114300     112200     1.20     15.0       2     0.375     3/8     0.374     0.11     0.110     3300     4500     66200     66060     90200     90100     1.10     13.8													Me
-														
-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-		
-														
	Note: only two samples for tensile and one sample for bend test													
							Bend T	est						
3/8	" Dia Ba	r Bend	Test Th	nrough	180° is \$	Satisfacto	ry							

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 25-02-2021

Dated: 17-02-2021

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

To, CEO Linker Developers 5 Mala House Construction Project, DGW

Reference # CED/TFL <u>36133 (Dr. Usman Akmal)</u>

Reference of the request letter # Nil

Dated: 25-02-2021

Dated: 25-02-2021

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

Date of Test 26-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Sr. No.    Size   Diameter   Area (in²)   Preaking   Load (in²)   Preaking													Remarks
S	(inch) (i													
1	1 0.383 3 0.379 0.11 0.113 3400 4600 68200 66500 92200 90000 1.20 15.0													
2	2 0.370 3 0.372 0.11 0.109 3400 4900 68200 68870 98200 99300 1.20 15.0													
-														
	Note: only two samples for tensile and one sample for bend test													
#2	Bend Test													
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To, M/S Haris & Company Lahore (Engro Enfrashare Pvt. Ltd. B2S Project)

Reference # CED/TFL <u>36134 (Dr. Usman Akmal)</u>

Reference of the request letter # 0003

Dated: 25-02-2021

Dated: 23-02-2021

**Tension Test Report** (Page -1/2)

Date of Test 26-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

r. No.	St. No.    Diameter/ Size (inch)   Area (in²)   Area (in²)   Pad   Pad (inch)   Pad													
S	Sr. No.  (Ibs/ft) We  Nominal Nominal Nominal Actual Actual Actual Actual Actual Actual (inch) Elon  (inch) Elon  Remarks													
1	1 0.366 10 9.40 0.12 0.108 3300 4600 60627 67590 84510 94300 1.00 12.5													
-														
-	-	-	-	-	-	•	-	•	-	-	-	-	1	
-	-	-	-	•	-	•	-	•	-	-	-	-	1	
-	-	-	-	-	-	•	-	-	-	-	-	-	•	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only one sample for tensile and one sample for bend test													
							Bend T	'est	•		•			
10r	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

o, M/S Haris & Company Lahore (Edotco B2S Project)

Reference # CED/TFL <u>36134 (Dr. Usman Akmal)</u>

Reference of the request letter # 0012

Dated: 25-02-2021

Dated: 23-02-2021

**Tension Test Report** (Page -2/2)

Date of Test 26-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		rea 1 <sup>2</sup> )	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(Ibs/ft) Nominal Actual													Re
1	1 0.366 10 9.40 0.12 0.108 3200 4600 58789 65560 84510 94300 1.10 13.8													
-														
-	-	-	-	•	-	-	-	•	-	-	•	-	-	
-	•	-	-	•	-	-	•	•	-	-	•	-	•	
-	-	-	-	-	-	-	-	•	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only one sample for tensile and one sample for bend test													
							Bend T	est						
10r	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	etory							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
Resident Engineer
Orbit Housing
The Springs Apartment Homes, Lahore

Reference # CED/TFL <u>36139 (Dr. Usman Akmal)</u>
Reference of the request letter # Nil

Dated: 26-02-2021
Dated: 25-02-2021

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

Date of Test 26-02-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

V   V   V   V   V   V   V   V   V   V	Sr. No.	Diameter/ size   Area (in²)   Area (in²)   Yield Stress (psi)   Ultimate Stress (psi)   Ultimate Stress (psi)   Old (psi)   Ol											% Elongation	Remarks	
2         0.385         3         0.379         0.11         0.113         3800         4900         76200         74090         98200         95600         1.10         13.8           - <th colspan="13">(inch) (inch) (inch)</th> <th>% E</th> <th>R</th>	(inch)													% E	R
	1	1 0.385 3 0.379 0.11 0.113 3600 4800 72200 70190 96200 93600 1.20 15.0													
	2 0.385 3 0.379 0.11 0.113 3800 4900 76200 74090 98200 95600 1.10 13.8														
	-														
Note: only two samples for tensile and one sample for bend test															
	Note: only two samples for tensile and one sample for bend test														
Bend Test  #3 Bar Bend Test Through 180° is Satisfactory	#3														

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
- 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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## 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 Madina Hardware & Co Lahore

Reference # CED/TFL 36140 (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 26-02-2021

Dated: 26-02-2021

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

Date of Test 26-02-2021 Gauge length 8 inches

Description Steel Rod Tensile Test

Sr. No.	Weight Weight Yield load Yield Stress (MPa)  Weight  Yield load Weight  Weight  Weight  Weight  Weight  Weight  Weight  Weight  Weight  Whea  Wh													
	(kg/m) (kg/m) Weight (mm) (mm) (mm) (mm) (mm) (mm) (mm) (MP (MP (mp) (mp) (mp) (mp) (mp) (mp) (mp) (mp)													
1	8.828	38	37.84		1124.6	73000	104000	637	907	1.20	15.0			
-														
-														
-														
-	-	-	-	-	-	-	-	-	-	-	-			
	Note: only one sample for tensile test													
Rend Test														
	Bend Test													

I/C Testing Laboratoires UET Lahore, Pakistan.

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