



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

To,

General Manager (Technical)  
Gharibwal Cement Limited.  
Lahore

Reference # CED/TFL **6177** (Dr. M Kashif)

Reference of the request letter # GCL/Purchase/UET/TEST/013

Dated: 17-12-2024

Dated: 17-12-2024

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

Date of Test 18-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.154	32	31.67	1.25	1.221	35600	61800	62787	64270	108995	111600	1.20	15.0	
2	4.152	32	31.66	1.25	1.220	35800	61600	63140	64660	108643	111300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratories**  
**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,  
 General Manager (Technical)  
 Gharibwal Cement Limited.  
 Lahore

Reference # CED/TFL **6178** (Dr. M Kashif)

Dated: 17-12-2024

Reference of the request letter # GCL/Purchase/UET/TEST/012

Dated: 17-12-2024

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

Date of Test 18-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.400	10	9.83	0.12	0.118	3600	5600	66138	67460	102881	105000	1.30	16.3	
2	0.386	10	9.65	0.12	0.113	3500	5500	64301	68040	101044	107000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,

Head Construction Site  
 ABL – UML P-199 & 200  
 Allied Bank  
 Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **6180** (Dr. M Kashif)

Dated: 17-12-2024

Reference of the request letter # ABL-UML-AMC-QAQC-101

Dated: 17-12-2024

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

Date of Test 18-12-2024

Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.390	3	0.382	0.11	0.115	3700	5000	74200	71070	100200	96100	1.30	16.3	FF Steel
2	0.376	3	0.375	0.11	0.110	3700	4800	74200	73840	96200	95800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
**UET Lahore, Pakistan.**

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

To,

Dy Dir Infra  
Defence Housing Authority, Gujranwala  
"Sec J."

Reference # CED/TFL **6182** (Dr. M Kashif)  
Reference of the request letter # 111/DD/Infra/Lab/J/522

Dated: 18-12-2024  
Dated: 17-12-2024

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

Date of Test 18-12-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	4.276	10	1.265	1.27	1.257	38400	56000	66700	67340	97200	98200	1.30	16.3	
2	4.335	10	1.274	1.27	1.274	34900	58200	60600	60370	101100	100700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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

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**Pakistan. Ph: 92-42-99029202**

To,

M/S Zes Zain Engineering Solutions  
Lahore  
(Ramada)

Reference # CED/TFL **6183** (Dr. M Kashif)  
Reference of the request letter # Nil

Dated: 18-12-2024  
Dated: 18-12-2024

**Tension Test Report** (Page – 1/1)

Date of Test 18-12-2024  
Gauge length 2 inches  
Description Square Pipe 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	50x50x1.6	13.80x1.80	24.84	840	1240	332	490	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one Sample for Tensile Test										
Bend Test										

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

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