



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

To,

Assistant Executive Engineer  
B&R Sub Division GB PWD  
Nagar-I

Reference # CED/TFL **4663** (Dr. M Rizwan Riaz)  
Reference of the request letter # AEE/N-I)/Misc/ /2023-24

Dated: 19-02-2024  
Dated: 16-02-2024

**Tension Test Report** (Page – 1/2)

Date of Test 26-02-2024  
Gauge length 2 inches  
Description GI 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
	(inch)	(mm)									
1	MS Pipe	8	26.35x5.00	131.75	4900	6000	365	447	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>											
<b>Bend Test</b>											

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

Note:

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Reference of the request letter # AEE/N-I)/Misc/ /2023-24

Dated: 19-02-2024  
Dated: 16-02-2024

**Weight & Size Test Report** (Page – 2/2)

Date of Test 26-02-2024  
Description GI Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	8	2048	76.1	26.91	219.30	209.30	5.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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**UET Lahore, Pakistan.**

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To,

Assistant Engineer  
 B & W Department  
 UET, Lahore

“Construction of Boundary Wall at Manawa Graveyard UET Lahore.”

Reference # CED/TFL **4687** (Dr. M Rizwan Riaz)  
 Reference of the request letter # B&W/AEN/3431

Dated: 22-02-2024  
 Dated: 16-02-2024

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

Date of Test 26-02-2024  
 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	0.366	3	0.370	0.11	0.107	3400	4700	68200	69730	94200	96400	1.30	16.3	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample 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,

M/S Takmeel Square (Pvt) Ltd.  
DHA Bahawalpur

Reference # CED/TFL **4688** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 22-02-2024  
Dated: 22-02-2022

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

Date of Test 26-02-2024  
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	0.374	3	0.374	0.11	0.110	3500	5000	70200	70200	100200	100300	1.50	18.8	
2	0.376	3	0.375	0.11	0.110	3400	4900	68200	67860	98200	97800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratories**  
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,

Project Manager  
 MS IT Tower, 4G, Lahore  
 Construction of MS IT Tower at Plat 450, 451 Johar Town, Lahore

Reference # CED/TFL **4690** (Dr. M Rizwan Riaz)  
 Reference of the request letter # MSITT/UET/2024/S-005

Dated: 23-02-2024  
 Dated: 23-02-2024

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

Date of Test 26-02-2024  
 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	0.380	3	0.377	0.11	0.112	3900	4700	78200	76880	94200	92700	1.00	12.5	AF Steel
2	0.379	3	0.377	0.11	0.111	3700	4700	74200	73250	94200	93100	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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**University of Engineering and Technology Lahore, 54890**  
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To,

Sub Divisional Officer  
 Highway Sub-Division Sohawa  
 “Construction of Rohtas Fort bypass Road Length = 3.21 km District Jhelum.”

Reference # CED/TFL **4692** (Dr. Ali Ahmed)  
 Reference of the request letter # 35/S

Dated: 23-02-2024  
 Dated: 21-02-2024

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

Date of Test 26-02-2024  
 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	5.397	11	1.421	1.56	1.587	47800	70800	67600	66410	100100	98400	1.50	18.8	
2	5.289	11	1.407	1.56	1.555	48200	69200	68100	68340	97800	98200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
Project Director  
Overseas Construction Co. (Pvt) Ltd  
Gulberg City Centre, Lahore

Reference # CED/TFL **4693** (Dr. M Rizwan Riaz)  
Reference of the request letter # OCC/Steel/56

Dated: 23-02-2024  
Dated: 23-02-2024

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

Date of Test 26-02-2024  
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	3100	5100	62200	64990	102200	107000	1.40	17.5	AK Supreme
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,

Site Engineer  
OZ Developers Pvt Ltd  
Construction a High-Rise Building “Bahria Sky” at Bahria Orchard Phase 4 Lahore

Reference # CED/TFL **4694** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 26-02-2024  
Dated: 26-02-2024

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

Date of Test 26-02-2024  
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	0.376	3	0.375	0.11	0.111	3500	5200	70200	69750	104200	103700	1.20	15.0	
2	0.383	3	0.378	0.11	0.113	3500	5300	70200	68570	106200	103900	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,

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

Reference # CED/TFL **4695** (Dr. M Rizwan Riaz)  
Reference of the request letter # ABL-UML-AMC-QAQC; 63

Dated: 26-02-2024  
Dated: 26-02-2024

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

Date of Test 26-02-2024  
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	0.367	3	0.371	0.11	0.108	3400	4900	68200	69460	98200	100100	1.10	13.8	FF Steel
2	0.361	3	0.368	0.11	0.106	3400	4900	68200	70630	98200	101800	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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