



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

To,  
 Sub Divisional Officer  
 Highway Sub Division, DG Khan  
 (Construction of Pile Foundation Bridge with Approaches at 3 Nos U-Turns on Manka Canal District DG Khan)

Reference # CED/TFL 2299, 2306 (Dr. M Rizwan Riaz)  
 Reference of the request letter # 138

Dated: 17-11-2022  
 Dated: 10-09-2022

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

Date of Test 17-11-2022  
 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	0.369	3	0.372	0.11	0.109	3400	5100	68200	69010	102200	103600	1.00	12.5	
2	0.376	3	0.375	0.11	0.110	3400	5100	68200	67840	102200	101800	1.20	15.0	
3	4.265	10	1.263	1.27	1.254	39400	52400	68400	69280	91000	92200	1.60	20.0	
4	4.256	10	1.262	1.27	1.251	40000	54600	69500	70470	94800	96200	1.50	18.8	
5	5.346	11	1.414	1.56	1.571	53400	69600	75500	74900	98400	97700	1.60	20.0	
6	5.326	11	1.412	1.56	1.566	43600	69400	61600	61390	98100	97800	1.50	18.8	
<b>Note: only six samples for tensile and three samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

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

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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To,  
 Material Engineer  
 Banu Mukhtar Contracting (Pvt) Ltd.  
 Burj-1 by AJWA Builders

Reference # CED/TFL **2300** (Dr. M Rizwan Riaz)  
 Reference of the request letter # DOC-BMC/AJWA/029

Dated: 17-11-2022  
 Dated: 16-11-2022

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

Date of Test 18-11-2022  
 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	0.386	3	0.380	0.11	0.113	3600	5400	72200	69950	108200	105000	1.10	13.8	
2	0.401	3	0.388	0.11	0.118	3700	5700	74200	69130	114300	106500	1.10	13.8	
3	4.216	10	1.256	1.27	1.239	42400	58000	73600	75410	100700	103200	1.50	18.8	
4	4.290	10	1.267	1.27	1.261	39200	55400	68100	68510	96200	96900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,

M/S Capital Contractors  
 Islamabad  
 “Fast (NU), Plot # 852-B, Faisal Town, Lahore”  
 “Construction of Car Parking & Cafeteria Plazza at FAST NU Lahore Campus”

Reference # CED/TFL **2301** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 17-11-2022  
 Dated: 17-11-2022

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

Date of Test 18-11-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	3/8	0.372	0.11	0.109	3200	4700	64200	64770	94200	95200	1.40	17.5	Itchad Steel
2	0.365	3/8	0.369	0.11	0.107	3100	4700	62200	63770	94200	96700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
 Campus Engineer  
 GC University, Lahore  
 “Construction of Sheikh Abul Hasan Al-Shadhili Research Centre on Sufism, Science & Technology GC University Kala Shah Kaku Campus, Lahore”

Reference # CED/TFL **2302** (Dr. M Rizwan Riaz)  
 Reference of the request letter # GCU/Engr/300/P

Dated: 17-11-2022  
 Dated: 16-11-2022

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

Date of Test 18-11-2022  
 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	0.370	3	0.372	0.11	0.109	3200	4700	64200	64830	94200	95300	1.30	16.3	Ittefaq 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														

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To,  
 Assistant Project Engineer  
 Defence Housing Authority  
 Gujranwala  
 “Construction of Villas”(Block – A & D)

Reference # CED/TFL **2303** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/3/APE Bldgs/Gen/28

Dated: 17-11-2022  
 Dated: 15-11-2022

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

Date of Test 18-11-2022  
 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	0.378	3	0.376	0.11	0.111	3600	4600	72200	71390	92200	91300	0.90	11.3	AF Steel
2	0.395	3	0.384	0.11	0.116	4400	5300	88200	83620	106200	100800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Assistant Director  
 Defence Housing Authority  
 Gujranwala  
 “Construction of Villas”(Block – A & D)

Reference # CED/TFL **2304** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/3/AD Bldgs/Gen/27

Dated: 17-11-2022  
 Dated: 15-11-2022

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

Date of Test 18-11-2022  
 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	0.364	3	0.369	0.11	0.107	3100	4800	62200	63810	96200	98800	1.50	18.8	Siraj Steel
2	0.384	3	0.379	0.11	0.113	3500	5200	70200	68370	104200	101600	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														

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