



**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 ASM Steel Buildings  
Lahore

Reference # CED/TFL **2034** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 29-09-2022

Dated: 28-09-2022

**Tension Test Report** (Page – 1/1)

Date of Test 04-10-2022  
Gauge length 2 inches  
Description Steel Plate 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)										
1	Plate	4	26.30x3.90	102.57	3200	4700	306	450	0.70	35.00	
2			26.10x3.90	101.79	3200	4800	308	463	0.70	35.00	
3	Plate	5	26.10x4.90	127.89	3700	5600	284	430	0.75	37.50	
4			26.10x4.90	127.89	3700	5500	284	422	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Tensile Test</b>											
<b>Bend Test</b>											

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

Note:

- 1- You can See your reports On Internet in the following web site  
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/09/2048

Dated: 30-09-2022

Dated of Test: 04-10-2022

To

**Sub Divisional Officer**  
**Public Health Engg: Sub Division**  
**Mianwali**  
**(Revamping/ Comprehensive Sewerage & Drainage including Tuff Tiles and PCC Scheme for Mianwali City)**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -1/2)**

Reference to your letter No. 183/MI, dated 17.03.2022 on the subject cited above. Five R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.73	7.33	16.22	11.97	2.12	9000	15000	2714	4524
2	15	7.73	7.30	19.37	14.70	2.34	9500	13000	2342	3205
3	18	7.76	7.33	22.91	17.99	2.46	8700	10000	1744	2005
4	21	7.73	7.17	26.57	21.09	2.74	11740	15620	2054	2733
5	24	7.82	7.19	30.16	23.88	3.14	9800	13680	1509	2107

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

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Ref: CED/TFL/09/2048

Dated: 30-09-2022

Dated of Test: 04-10-2022

To

**Sub Divisional Officer**  
**Public Health Engg: Sub Division**  
**Mianwali**  
**(Revamping / Comprehensive Sewerage & Drainage including Tuff Tiles and PCC Scheme for Mianwali City)**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/2)**

Reference to your letter No. 181/MI, dated 17.03.2022 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.77	7.32	11.10	8.64	1.23	8500	10000	3555	4182

**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,  
Resident Engineer  
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv  
Diamer Basha Dam Project

Reference # CED/TFL **2051** (Dr. M Rizwan Riaz)  
Reference of the request letter # DBCG/Lab/PF-JV/2022/040A

Dated: 03-10-2022  
Dated: 01-10-2022

**Tension Test Report** (Page -1/3)

Date of Test 04-10-2022  
Gauge length 640 mm  
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	787.0	17500	171.68	19700	193.26	199	>3.50	WS-2022-S4-03A
2	15.24 (0.6")	1102.0	1118.0	24100	236.42	27600	270.76	199	>3.50	WS-2022-S4-03
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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

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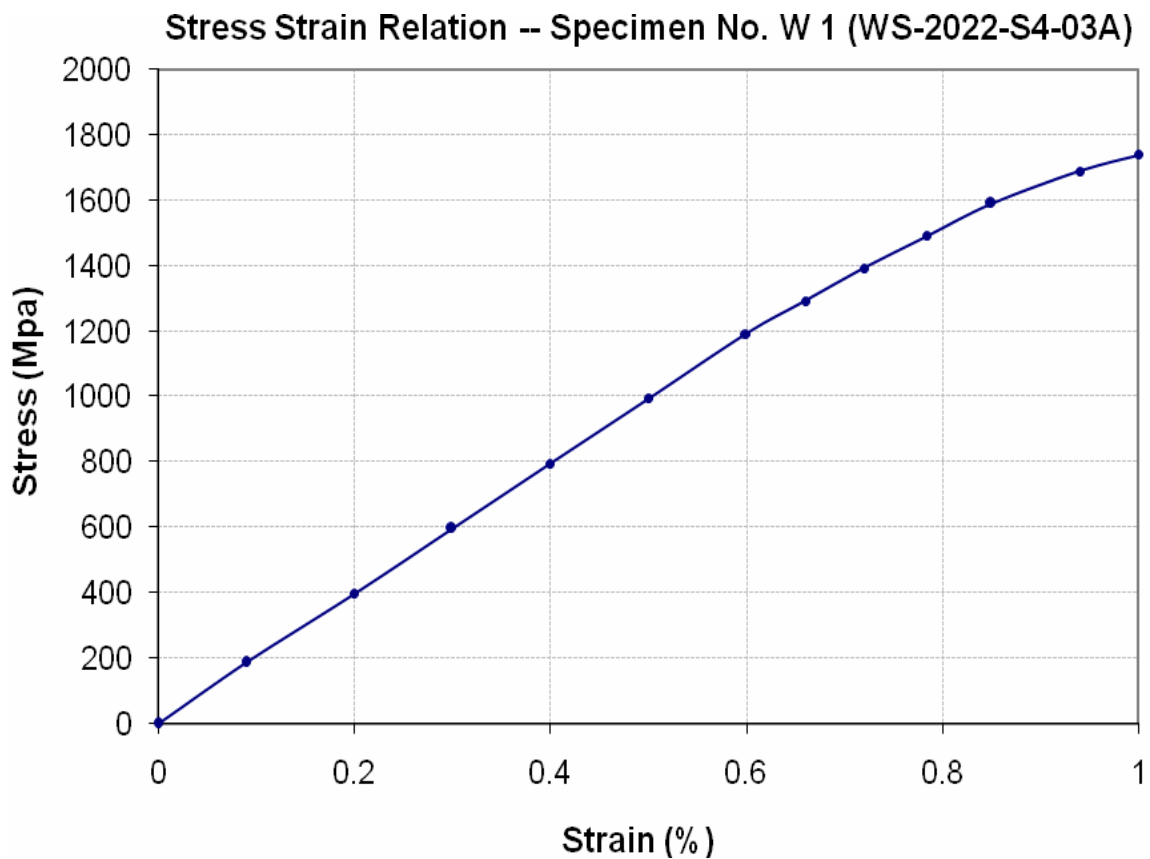
**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer  
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv  
Diamer Basha Dam Project

Reference # CED/TFL 2051 (Dr. M Rizwan Riaz)  
Reference of the request letter # DBCG/Lab/PF-JV/2022/040A

Dated: 03-10-2022  
Dated: 01-10-2022

**Graph** (Page – 2/3)



**I/C Testing Laboratories**  
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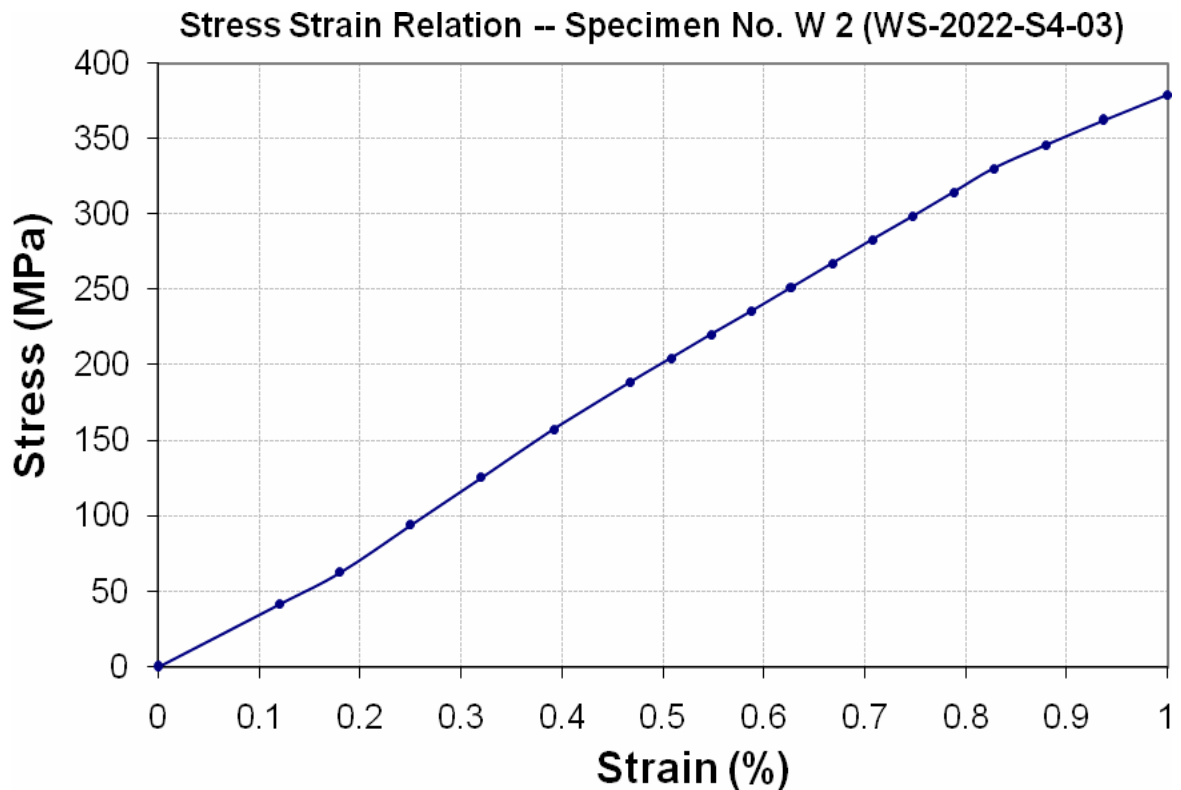
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**Test Floor Laboratory**  
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To,  
Resident Engineer  
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv  
Diamer Basha Dam Project

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Reference of the request letter # DBCG/Lab/PF-JV/2022/040A

Dated: 03-10-2022  
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**Graph** (Page – 3/3)



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

To,  
 Sr. Manager Coordination  
 Dream Builders  
 Construction of Apartment Building at 32-P, Model Town Ext, Lahore

Reference # CED/TFL **2052** (Dr. M. Rizwan Riaz)  
 Reference of the request letter # DB/CONST-32P/22/1003

Dated: 03-10-2022  
 Dated: 03-10-2022

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

Date of Test 04-10-2022  
 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	0.380	3	0.377	0.11	0.112	3700	4900	74200	73090	98200	96800	1.00	12.5	
2	0.379	3	0.377	0.11	0.111	3900	4900	78200	77200	98200	97000	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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Project Director  
 Infrastructure Development Authority of The Punjab  
 Pilot Program for Hub and Spoke Model at Zahir Pir, Rahim Yar Khan

Reference # CED/TFL **2053** (Dr. M. Rizwan Riaz)  
 Reference of the request letter # PD/ZP/IDAP/SO/2022/034

Dated: 03-10-2022  
 Dated: 02-10-2022

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

Date of Test 04-10-2022  
 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	0.377	3	0.376	0.11	0.111	3400	5000	68200	67610	100200	99500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 G.M Engineering  
 Mughals Pakistan (Private) Limited  
 Construction of Serena Hotel, Hunza.

Reference # CED/TFL **2054** (Dr. M. Rizwan Riaz)  
 Reference of the request letter # 786/MPL-0075/031006/2022

Dated: 03-10-2022  
 Dated: 03-10-2022

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

Date of Test 04-10-2022  
 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	0.374	3	0.374	0.11	0.110	3300	5000	66200	66170	100200	100300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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To,  
M/S Ritz Developers (Pvt) Ltd.  
Lahore

Reference # CED/TFL **2055**(Dr. M. Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 03-10-2022

Dated: 03-10-2022

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

Date of Test 04-10-2022  
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	4900	5700	98200	97280	114300	113200	0.80	10.0	AF Steel
2	0.387	3	0.381	0.11	0.114	5100	5900	102200	98730	118300	114300	0.75	9.4	
3	0.388	3	0.381	0.11	0.114	5100	5900	102200	98540	118300	114000	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three 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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**Pakistan. Ph: 92-42-99029202**

To,  
 Fayyaz Khan  
 Lahore

Reference # CED/TFL **2056** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 03-10-2022  
 Dated: 03-10-2022

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

Date of Test 04-10-2022  
 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	0.373	3	0.374	0.11	0.110	3400	4800	68200	68320	96200	96500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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

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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.E  
AS Enterprises  
Style Textile Manga, Knitting Building, Yarn Store, Acro  
(AA Associates)

Reference # CED/TFL **2057** (Dr. M Rizwan Riaz)  
Reference of the request letter # STM/ASE/03

Dated: 03-10-2022  
Dated: 03-10-2022

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

Date of Test 04-10-2022  
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	0.415	10	10.01	0.12	0.122	4200	5300	77161	75910	97370	95800	1.30	16.3	Afco Steel
2	0.402	10	9.86	0.12	0.118	3600	5000	66138	67110	91858	93300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratoires**  
**UET Lahore, Pakistan.**

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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,  
 Project Engineer  
 Defence Housing Authority  
 Gujranwala  
 "Sector-C"

Reference # CED/TFL **2061** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/694

Dated: 04-10-2022  
 Dated: 03-10-2022

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

Date of Test 04-10-2022  
 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	4.307	10	1.270	1.27	1.266	38800	55400	67400	67560	96200	96500	1.40	17.5	Nonee Steel
2	4.330	10	1.273	1.27	1.273	30200	42000	52500	52300	72900	72800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Amir Shehzad (L.T)

**I/C Testing Laboratoires**  
**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