



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

To,  
Deputy Project Manager  
Proj Mgmt Unit Chaman  
CAREC-RIBS Chaman BCF Project – All Assigned Packages  
(FBR)(CSC)(NLC)

Reference # CED/TFL **35714** (Dr. Ali Ahmed)  
Reference of the request letter # 607/NLC/CAMEOS/Lab/0005

Dated: 07-12-2020

Dated: 02-12-2020

**Tension Test Report** (Page – 1/2)

Date of Test 16-12-2020

Gauge length 2 inches

Description Angle Iron Steel Strip Tensile and Bend Test as per ASTM A-36

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	Angle Iron	15.70x6.00	94.20	2800	4300	291.59	447.80	0.60	30.00	
2		15.70x6.00	94.20	3000	4400	312.42	458.22	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Angle Iron Bend Test Through 180° is Satisfactory										

**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)
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To,  
Deputy Project Manager  
Proj Mgmt Unit Chaman  
CAREC-RIBS Chaman BCF Project – All Assigned Packages  
(FBR)(CSC)(NLC)

Reference # CED/TFL **35714** (Dr. Ali Ahmed)  
Reference of the request letter # 607/NLC/CAMEOS/Lab/0005

Dated: 07-12-2020  
Dated: 02-12-2020

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

Date of Test 16-12-2020  
Gauge length -----  
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L <sub>1</sub>	L <sub>2</sub>	Thickness	Remark
1	Angle Iron	2015	61.00	3.30	39.40	38.00	6.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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

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To,  
Project Manager  
Project Management Unit  
National Logistic Cell  
CPEC Gilgit  
(Construction of Bridge from Chilmishdas to Sultanabad Bypass on Hunza River Gilgit)  
Reference # CED/TFL **35730** (Dr. Ali Ahmed) Dated: 10-12-2020  
Reference of the request letter # 5537/1/Naltar Rd/PMU Dated: 19-11-2020

**Tension Test Report** (Page – 1/4)

Date of Test 16-12-2020  
Gauge length 640 mm  
Description Steel Strand Tensile Test as per ASTM A-416-94

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	781.0	17100	167.75	20100	197.18	199	>3.50	xx
2	12.70 (1/2")	775.0	781.0	17000	166.77	20200	198.16	198	>3.50	xx
3	12.70 (1/2")	775.0	781.0	17000	166.77	20000	196.20	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only three samples for Test</b>										

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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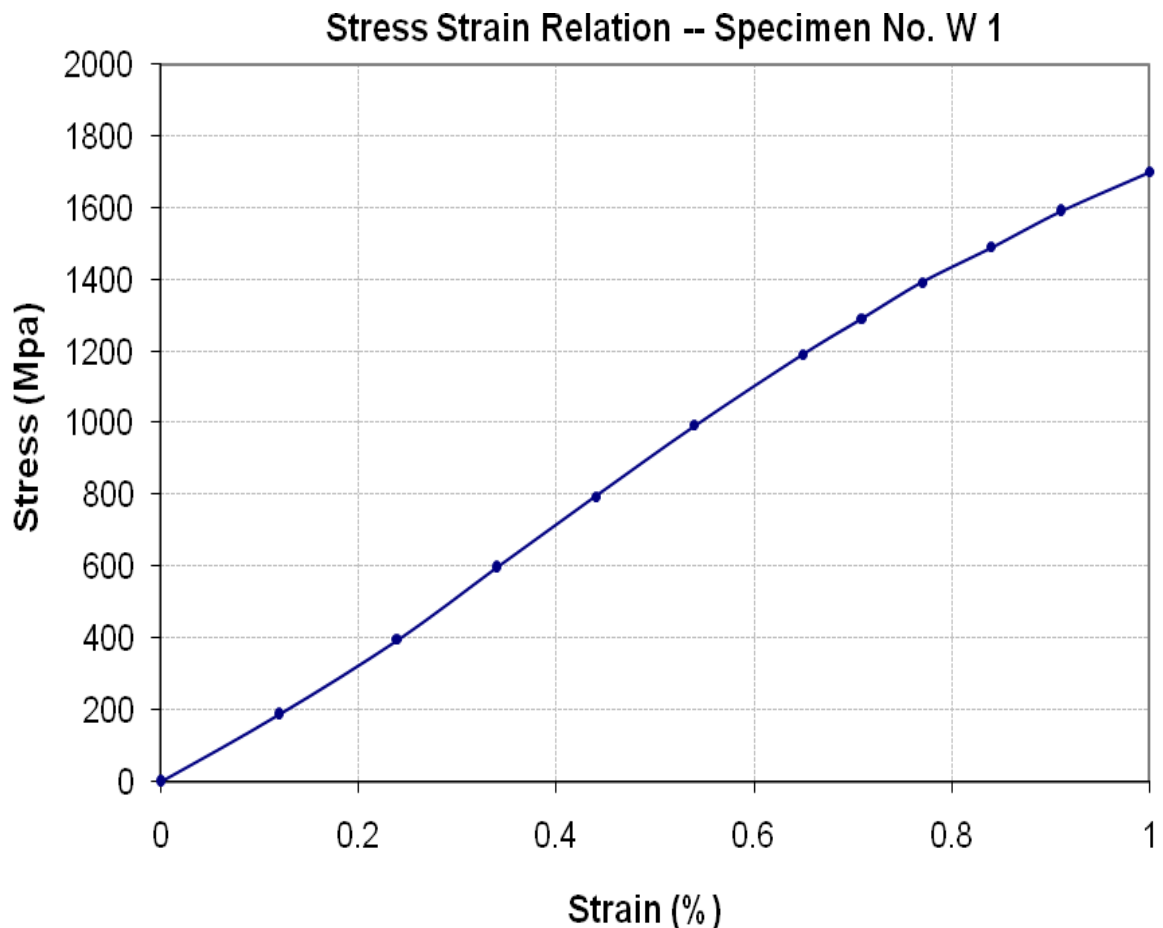
To,  
Project Manager  
Project Management Unit  
National Logistic Cell  
CPEC Gilgit  
(Construction of Bridge from Chilmishdas to Sultanabad Bypass on Hunza River Gilgit)

Reference # CED/TFL **35730** (Dr. Ali Ahmed)  
Reference of the request letter # 5537/1/Naltar Rd/PMU

Dated: 10-12-2020

Dated: 19-11-2020

**Graph** (Page – 2/4)



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

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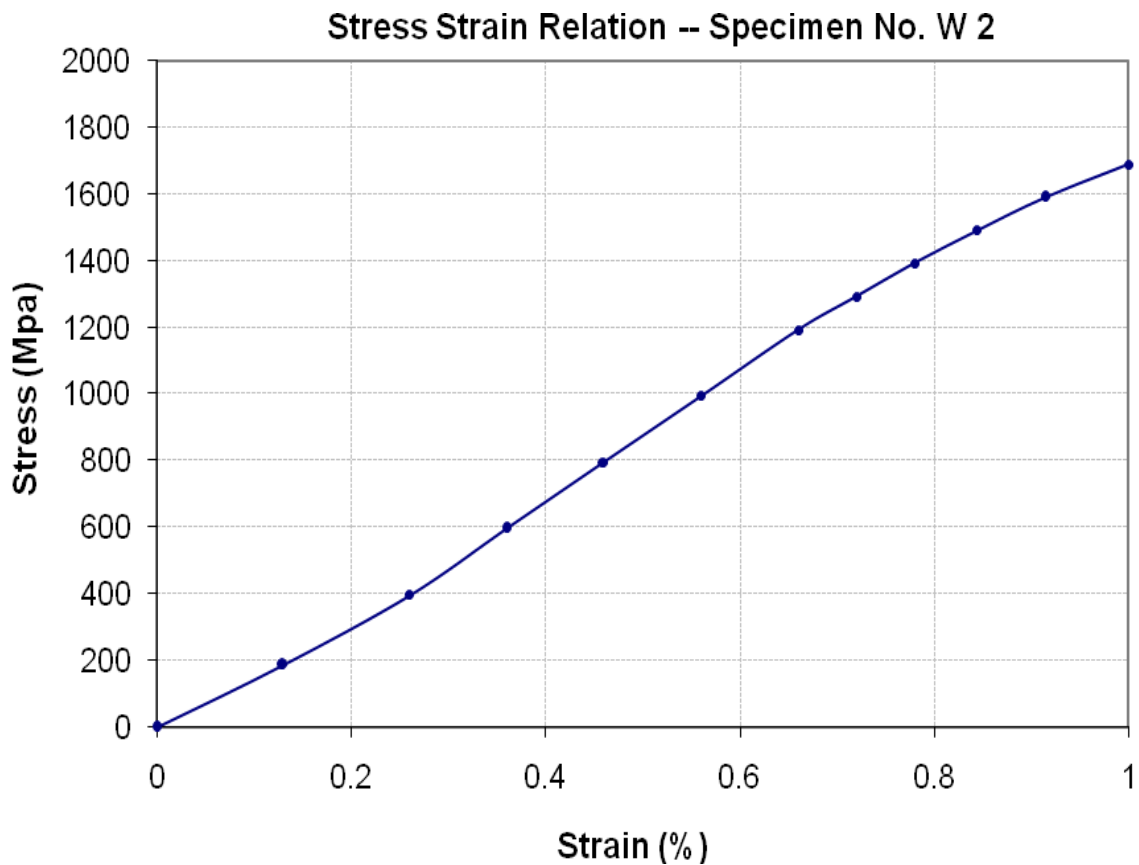
To,  
Project Manager  
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National Logistic Cell  
CPEC Gilgit  
(Construction of Bridge from Chilmishdas to Sultanabad Bypass on Hunza River Gilgit)

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Reference of the request letter # 5537/1/Naltar Rd/PMU

Dated: 10-12-2020

Dated: 19-11-2020

**Graph** (Page – 3/4)



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

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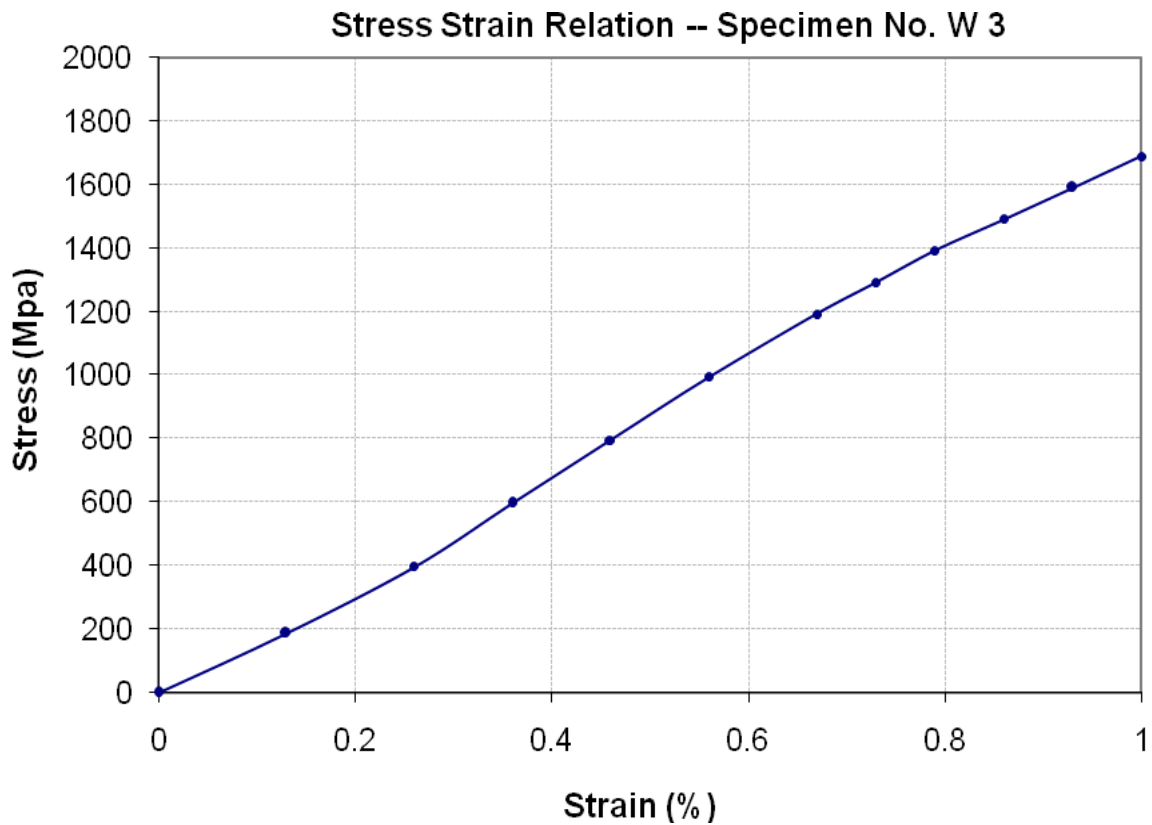
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To,  
Project Manager  
Project Management Unit  
National Logistic Cell  
CPEC Gilgit  
(Construction of Bridge from Chilmishdas to Sultanabad Bypass on Hunza River Gilgit)

Reference # CED/TFL **35730** (Dr. Ali Ahmed)  
Reference of the request letter # 5537/1/Naltar Rd/PMU

Dated: 10-12-2020  
Dated: 19-11-2020

**Graph** (Page – 4/4)



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

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

Ref: CED/TFL/12/35743

Dated: 10-12-2020

Dated of Test: 16-12-2020

To  
**Resident Engineer - I**  
**NESPAK**  
**Construction Underpass at Firdous Market, Lahore**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. 3772/FMU/103/MWA/04/334, dated 08.12.2020 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	36	8.04	7.67	3.65	2.99	3.94	25330	37940	2434	3646

**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,  
 Manager Monitoring & Coordination  
 Shajar Roads Limited  
 Dualization of Sheikhpura- Gujranwala Road

Reference # CED/TFL **35745** (Dr. Ali Ahmed)  
 Reference of the request letter # MMC/SHJR/SGRP/14

Dated: 10-12-2020  
 Dated: 08-12-2020

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

Date of Test 16-12-2020  
 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	0.410	10	9.94	0.12	0.120	4300	5600	78998	78740	102881	102600	1.10	13.8	
2	0.406	10	9.90	0.12	0.119	4200	5400	77161	77600	99207	99800	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														

Witness by Shamim Zafar (Chief Material Specialist (Advisor) NESPAK), Abdul Rashid Abbasi (Material Engr. SHAJAR)

**I/C Testing Laboratoires**  
**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**

Ref: CED/TFL/12/35746

Dated: 10-12-2020

Dated of Test: 16-12-2020

To  
**Manager Monitoring & Coordination**  
**Shajar Roads Limited**  
**Dualization of Sheikhupura- Gujranwala Road**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. MMC/SHJR/SGRPS/15, dated 10.12.2020 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	36	7.97	7.32	3.64	2.98	3.95	19500	32120	1969	3244

Witness by Shamim Zafar (Chief Material Specialist (Advisor) NESPAK), Abdul Rashid Abbasi (Material Engr. SHAJAR) & M Jameel Ashraf (L.T. NESPAK)

**I/C Testing Laboratoires**  
**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,  
 Major Engr  
 Garrison Engineer (A)  
 Mangla Cantt  
 (Const of 8 x D Type Flats Block No. 7 Baral City at Mgl Cantt)  
 (AF Steel)  
 Reference # CED/TFL **35766** (Dr. Ali Ahmed)  
 Reference of the request letter # 6311/39/E6

Dated: 15-12-2020  
 Dated: 26-10-2020

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

Date of Test 16-12-2020  
 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	Grade
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3/8	0.377	0.11	0.112	2900	4500	58200	57240	90200	88900	1.20	15.0	40
2	0.379	3/8	0.377	0.11	0.111	3000	4500	60200	59380	90200	89100	1.20	15.0	
3	0.403	3/8	0.388	0.11	0.119	3500	5500	70200	65080	110200	102300	1.20	15.0	60
4	0.401	3/8	0.387	0.11	0.118	3600	5500	72200	67400	110200	103000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
<b>Bend Test</b>														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

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**Department of Civil Engineering**  
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**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Buildings Sub Division No. 9  
 Lahore  
 (Provincial Police Line of Punjab Highway Patrol at Jia Bagga, Lahore (Barracks First Floor))

Reference # CED/TFL **35767** (Dr. Ali Ahmed)  
 Reference of the request letter # 178/9th

Dated: 15-12-2020  
 Dated: 19-10-2020

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

Date of Test 16-12-2020  
 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	0.376	3/8	0.375	0.11	0.110	3500	4800	70200	69870	96200	95900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" 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,  
 Khurram Shahzad  
 Lahore

Reference # CED/TFL **35768** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 15-12-2020  
 Dated: 15-12-2020

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

Date of Test 16-12-2020  
 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	0.108	-----	5000	-----	-----	100200	102600	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**Test Floor Laboratory**  
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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Construction Manager  
 Zameen Aurum  
 Construction of Zameen Aurum at Plot No. 15 Block, Gulberg-III, Main Feroze Pur Road,  
 Lahore Lahore  
 Reference # CED/TFL 35771 (Dr. Ali Ahmed) Dated: 16-12-2020  
 Reference of the request letter # ZD/ZA/PILING/004 Dated: 16-12-2020

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

Date of Test 16-12-2020  
 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	0.108	3000	4700	60200	61400	94200	96200	1.10	13.8	
2	0.387	3	0.380	0.11	0.114	3100	5000	62200	60140	100200	97000	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 Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
 Project Manager  
 Qaiser Construction Company

Reference # CED/TFL **35772** (Dr. Ali Ahmed)  
 Reference of the request letter # Nil

Dated: 16-12-2020  
 Dated: 16-12-2020

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

Date of Test 16-12-2020  
 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	0.382	3	0.378	0.11	0.112	2800	4100	56200	54960	82200	80500	1.30	16.3	
2	0.369	3	0.372	0.11	0.108	2900	4400	58200	58960	88200	89500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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