



**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 Division  
Mian Channu  
(Widening / Improvement of Inter District Road from Nawan Shaher to Kukar Hatta Length  
7.70 km Group-II Construction of Pile Foundation Bridge over Sidhani Canal I/C Approaches  
from km No. 6.00 to 6.70 Length 0.70 km in Khanewal)  
Reference # CED/TFL **36466** (Dr. Qasim Khan) Dated: 25-05-2021  
Reference of the request letter # 869/SDO MC Dated: 21-05-2021

**Tension Test Report** (Page – 1/2)

Date of Test 31-05-2021  
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	776.0	16900	165.79	18800	184.43	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>Only one sample 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 Laboratories**  
**UET Lahore, Pakistan.**

Note:

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To,  
Sub Divisional Officer  
Highway Division  
Mian Channu

(Widening / Improvement of Inter District Road from Nawan Shaher to Kukar Hatta Length 7.70 km Group-II Construction of Pile Foundation Bridge over Sidhani Canal I/C Approaches from km No. 6.00 to 6.70 Length 0.70 km in Khanewal)

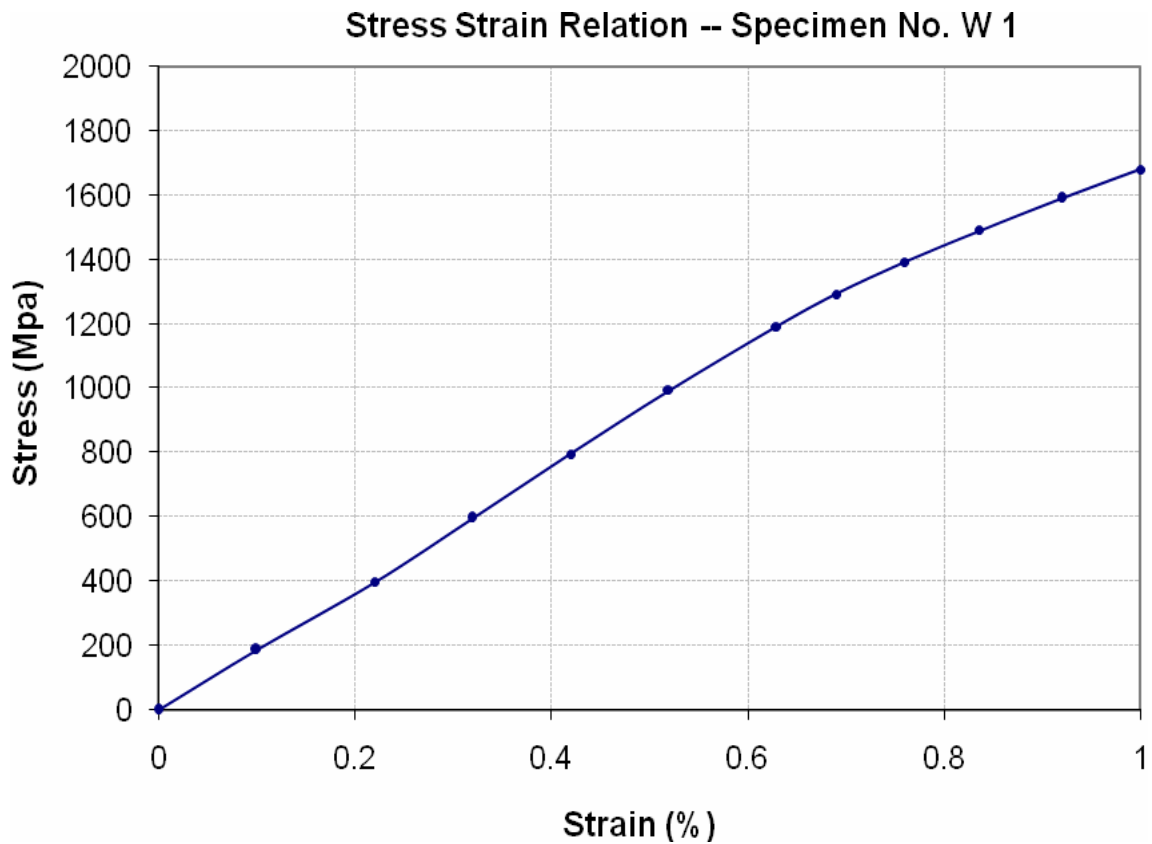
Reference # CED/TFL **36466** (Dr. Qasim Khan)

Dated: 25-05-2021

Reference of the request letter # 869/SDO MC

Dated: 21-05-2021

**Graph** (Page – 2/2)



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To,  
 Assistant Project Director  
 PMU-SBP  
 (Development of Football Ground at Peoples Colony, Sastabazar Gujranwala City)

Reference # CED/TFL **36468** (Dr. Qasim Khan)  
 Reference of the request letter # ADP/PMU/SBP/TEST/01

Dated: 26-05-2021  
 Dated: 26-05-2021

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

Date of Test 31-05-2021  
 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	0.385	3/8	0.379	0.11	0.113	3300	5000	66200	64330	100200	97500	1.30	16.3	
2	0.383	3/8	0.379	0.11	0.113	3300	5000	66200	64620	100200	98000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

**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,  
 General Manager  
 AYQ Developers Pvt. Ltd  
 Union Complex

Reference # CED/TFL **36469** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 27-05-2021  
 Dated: 27-08-2021

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

Date of Test 31-05-2021  
 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	0.391	3	0.383	0.11	0.115	2700	3600	54100	51740	72200	69000	1.90	23.8	H-I Steel
2	0.394	3	0.384	0.11	0.116	4000	4700	80200	76100	94200	89500	1.40	17.5	
3	0.377	3	0.376	0.11	0.111	2200	3000	44100	43720	60200	59700	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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 Laboratoires**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
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To,  
M/S Khalid Overseas Corporation  
Sialkot

Reference # CED/TFL **36470** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 27-05-2021  
Dated: 27-05-2021

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

Date of Test 31-05-2021  
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	0.389	3/8	0.382	0.11	0.114	3800	5100	76200	73210	102200	98300	1.10	13.8	
2	0.390	3/8	0.382	0.11	0.115	3900	5100	78200	75070	102200	98200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

**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  
 Buildings Sub Division  
 Kasur  
 Construction of Boundary Wall for Establishment of Judicial Complex Kot Radha Kishan,  
 District Kasur  
 Reference # CED/TFL **36471** (Dr. Qasim Khan) Dated: 27-05-2021  
 Reference of the request letter # 211 Dated: 25-05-2021

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

Date of Test 31-05-2021  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.362	3/8	0.368	0.11	0.106	2800	4200	56200	58030	84200	87100	1.30	16.3	
2	0.360	3/8	0.367	0.11	0.106	2800	4200	56200	58310	84200	87500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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To,  
 Project Manager  
 12-c Plot Construction of Residential Building, Gulberg III, Lahore

Reference # CED/TFL **36473** (Dr. Qasim Khan)  
 Reference of the request letter # C-12-01

Dated: 28-05-2021  
 Dated: 28-05-2021

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

Date of Test 31-05-2021  
 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	0.375	3	0.375	0.11	0.110	3900	4900	78200	78000	98200	98000	0.90	11.3	Kamran Steel
2	0.375	3	0.375	0.11	0.110	3700	4700	74200	74000	94200	94000	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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To,  
M/S Shahid Engineers  
Faisalabad  
(Apex Mall People Colony, D Block, Satiana Road, Faisalabad)(Rana Riasat Ali)

Reference # CED/TFL **36474** (Dr. Qasim Khan)  
Reference of the request letter # Fx-83/121

Dated: 28-05-2021  
Dated: 26-04-2021

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

Date of Test 31-05-2021  
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	0.408	3	0.391	0.11	0.120	4000	5000	80200	73580	100200	92000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 Allied Engineering Consultants (Pvt) Ltd  
 Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No. 1)

Reference # CED/TFL **36475** (Dr. Qasim Khan)  
 Reference of the request letter # AEC/MBC/2021/46

Dated: 28-05-2021  
 Dated: 25-05-2021

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

Date of Test 31-05-2021  
 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	0.372	3	0.373	0.11	0.109	3300	4700	66200	66500	94200	94800	1.10	13.8	
2	0.369	3	0.372	0.11	0.109	3300	4600	66200	66980	92200	93400	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**  
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