



**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  
Gojra  
(Dualization of Faisalabad – Jhang Road (Section Dandewal to Chiraghabad) (km no. 169.5 to 170.35 and 170.55 TP 170.75), Length = 1.50 km)

Reference # CED/TFL **37113** (Dr. Usman Akmal)  
Reference of the request letter # 03

Dated: 28-09-2021  
Dated: 25-09-2021

**Tension Test Report** (Page -1/4)

Date of Test 01-10-2021  
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	787.0	17700	173.64	19400	190.31	199	>3.50	13
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

**Only one sample 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.**

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



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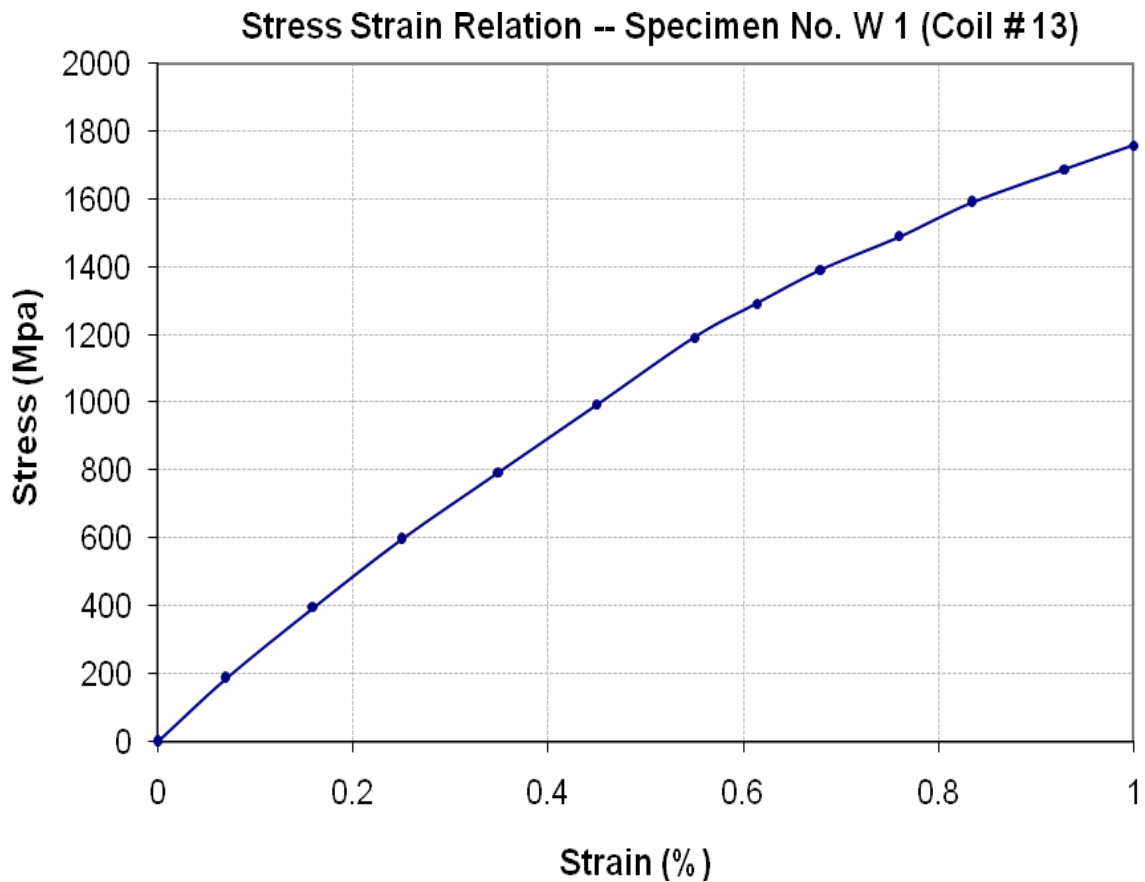
To,  
Sub Divisional Officer  
Highway Sub Division  
Gojra  
(Dualization of Faisalabad – Jhang Road (Section Dandewal to Chiraghabad) (km no. 169.5 to 170.35 and 170.55 TP 170.75), Length = 1.50 km)

Reference # CED/TFL **37113** (Dr. Usman Akmal)  
Reference of the request letter # 03

Dated: 28-09-2021

Dated: 25-09-2021

**Graph** (Page – 2/2)



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

Note:

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

To,  
Material Engineer  
Jv-Min-CEC  
Khyber Pakhtunkhwa Provincial Roads Improvement Project (KP-Prip)(ADB Assisted)  
Package-II Lot-5 Maqsood-Kohala - Pir Sohawa Road Section (35 km)

Reference # CED/TFL **37115** (Dr. Usman Akmal)

Dated: 28-09-2021

Reference of the request letter # JV Min-CEC/PRIP/ME-01/2021/087

Dated: 24-09-2021

**Tension Test Report** (Page -1/4)

Date of Test 01-10-2021

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	782.0	18500	181.49	19900	195.22	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 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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Material Engineer  
Jv-Min-CEC  
Khyber Pakhtunkhwa Provincial Roads Improvement Project (KP-Prp)(ADB Assisted)  
Package-II Lot-5 Maqsood-Kohala - Pir Sohawa Road Section (35 km)

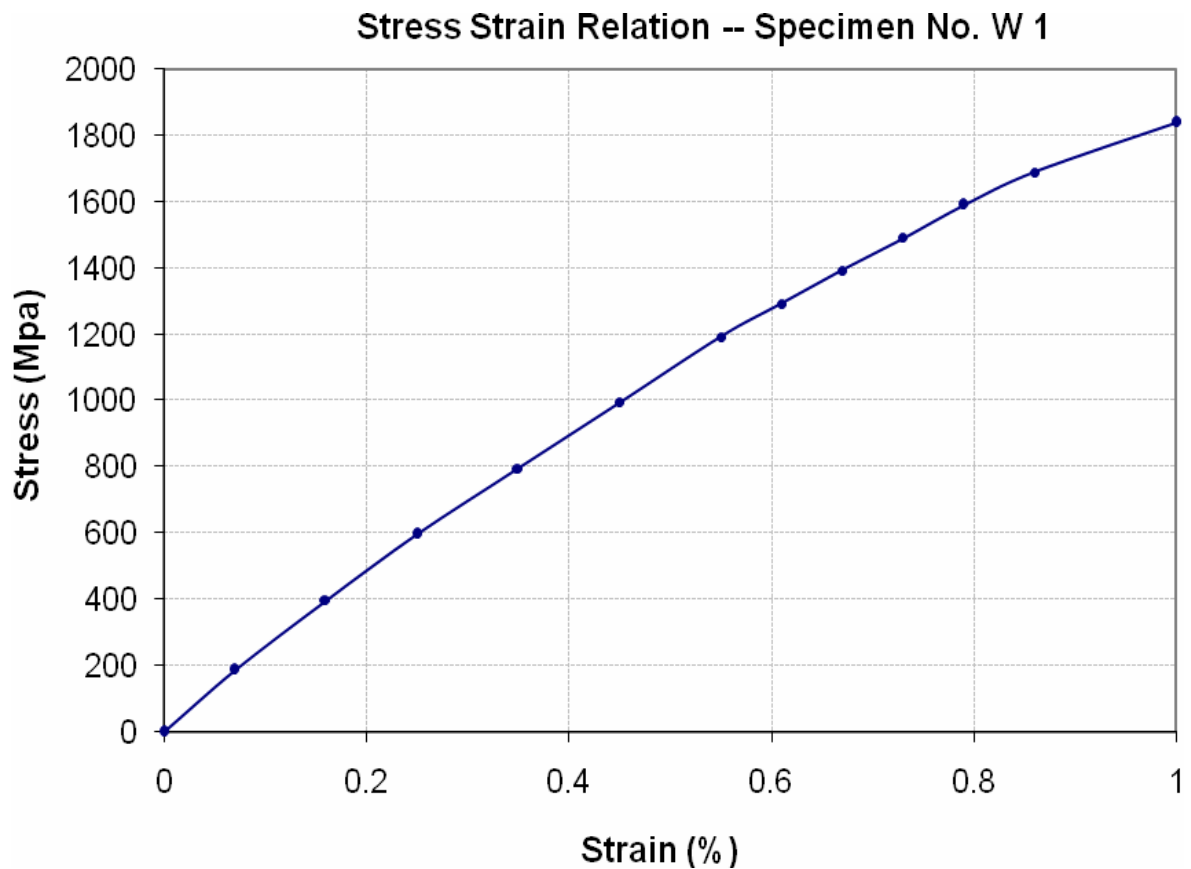
Reference # CED/TFL **37115** (Dr. Usman Akmal)

Dated: 28-09-2021

Reference of the request letter # JV Min-CEC/PRIP/ME-01/2021/087

Dated: 24-09-2021

**Graph** (Page – 2/2)



**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  
PAVRON Pkg-01  
Improvement /Up Gradation of Road Mohmand Ghat (Mohmand Boundry) – Khar Including  
Existing Nawagai By-Pass Pkg-01 (33 km)

Reference # CED/TFL **37118** (Dr. Usman Akmal)  
Reference of the request letter # RE/TDP/2021/105

Dated: 29-09-2021  
Dated: 27-09-2021

**Tension Test Report** (Page -1/4)

Date of Test 01-10-2021  
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	783.0	17100	167.75	19300	189.33	199	>3.50	xx
2	12.70 (1/2")	775.0	781.0	17000	166.77	19100	187.37	199	>3.50	xx
3	12.70 (1/2")	775.0	782.0	17200	168.73	19300	189.33	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

**Only three 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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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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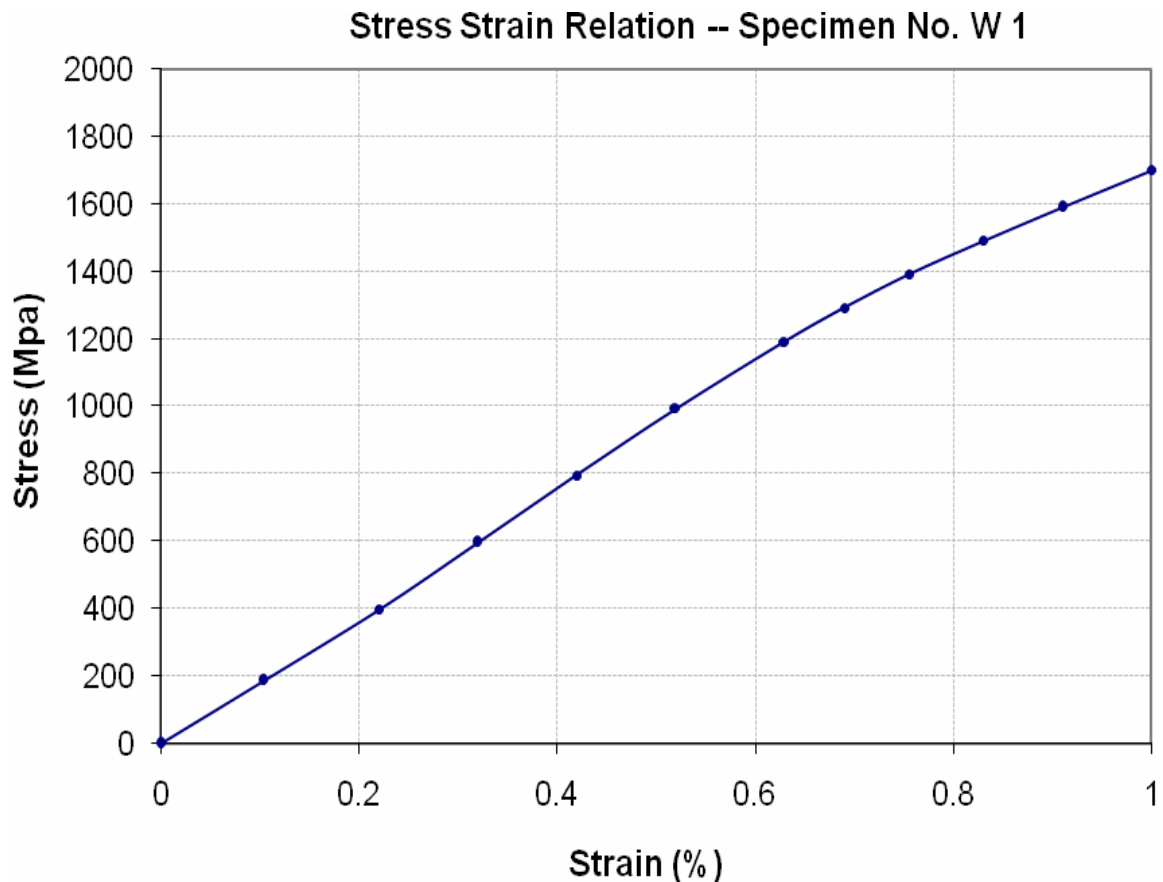
To,  
Resident Engineer  
PAVRON Pkg-01  
Improvement /Up Gradation of Road Mohmand Ghat (Mohmand Boundry) – Khar Including  
Existing Nawagai By-Pass Pkg-01 (33 km)

Reference # CED/TFL **37118** (Dr. Usman Akmal)  
Reference of the request letter # RE/TDP/2021/105

Dated: 29-09-2021

Dated: 27-09-2021

**Graph** (Page – 2/4)



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

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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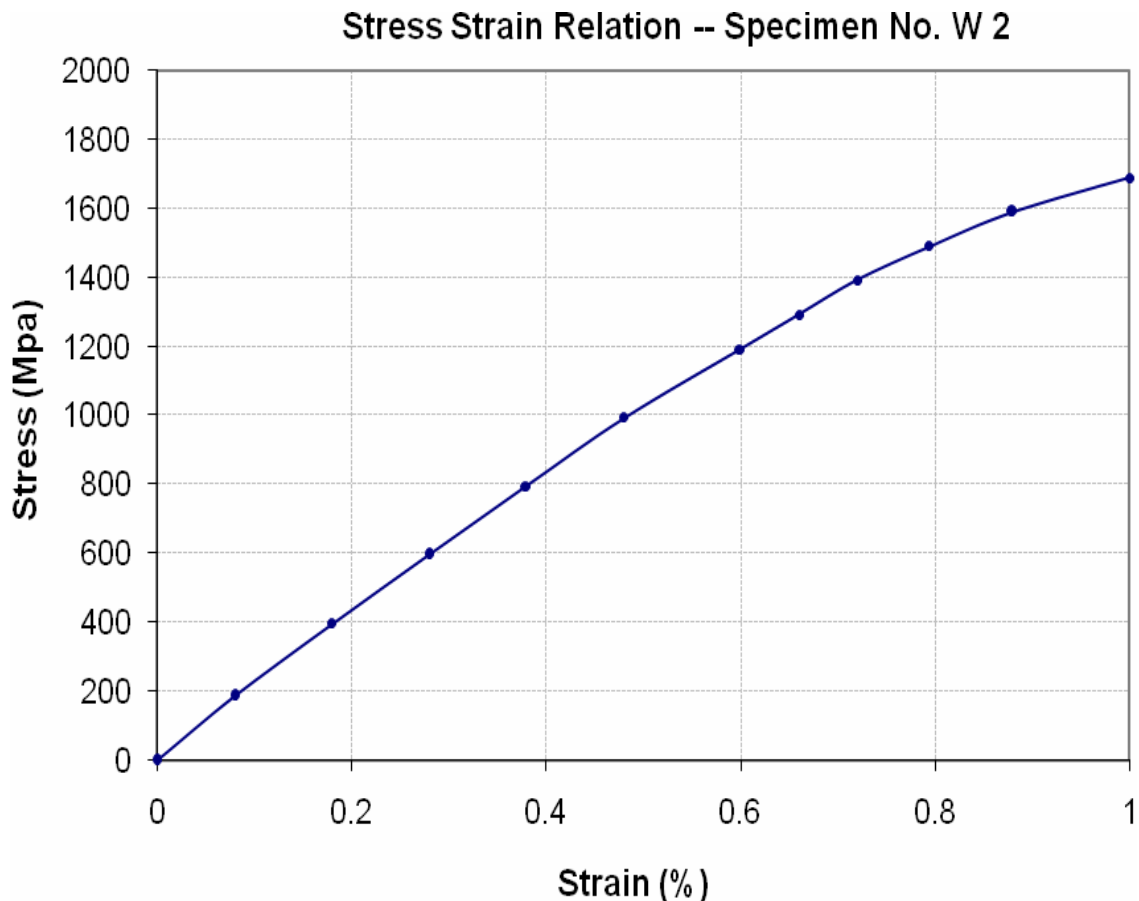
To,  
Resident Engineer  
PAVRON Pkg-01  
Improvement /Up Gradation of Road Mohmand Ghat (Mohmand Boundry) – Khar Including  
Existing Nawagai By-Pass Pkg-01 (33 km)

Reference # CED/TFL **37118** (Dr. Usman Akmal)  
Reference of the request letter # RE/TDP/2021/105

Dated: 29-09-2021

Dated: 27-09-2021

**Graph** (Page – 3/4)



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

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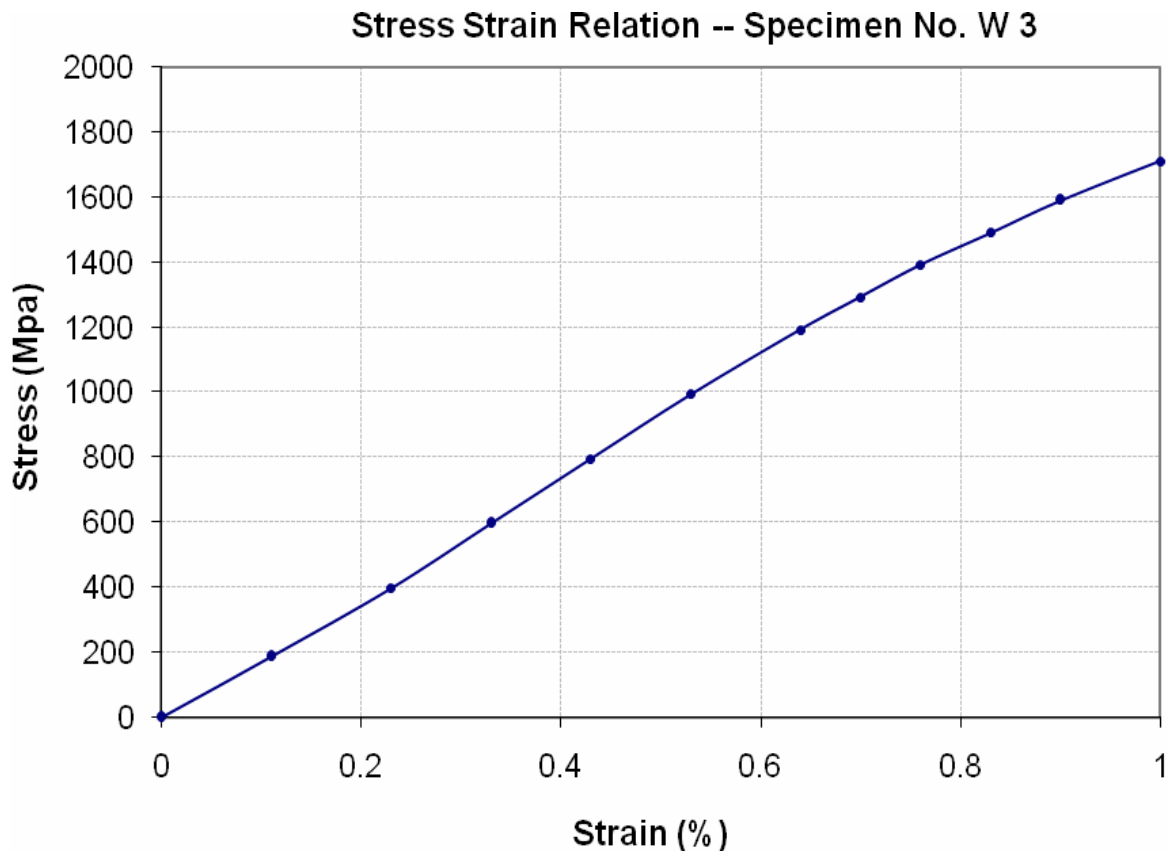
To,  
Resident Engineer  
PAVRON Pkg-01  
Improvement /Up Gradation of Road Mohmand Ghat (Mohmand Boundry) – Khar Including  
Existing Nawagai By-Pass Pkg-01 (33 km)

Reference # CED/TFL **37118** (Dr. Usman Akmal)  
Reference of the request letter # RE/TDP/2021/105

Dated: 29-09-2021

Dated: 27-09-2021

**Graph** (Page – 4/4)



**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,  
M/S Beacon Impex  
34 – km Sheikhpura Road, Faisalabad  
(Construction of Multi Story Building for Cutting & Kntting at Beacon Impex.  
(M/s M. Saleem Construction Company)

Reference # CED/TFL **37128** (Dr. Usman Almal)  
Reference of the request letter # B.I/CIVIL/21-120

Dated: 30-09-2021  
Dated: 25-09-2021

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

Date of Test 01-10-2021  
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	0.373	3	0.374	0.11	0.110	3500	4800	70200	70280	96200	96400	1.00	12.5	SAJ
2	0.375	3	0.374	0.11	0.110	3700	4900	74200	74080	98200	98100	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														

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

Note:

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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,  
 Site Supervisor  
 H&H Construction  
 McDonalds' Pakistan, DHA Phase VII Lahore

Reference # CED/TFL **37129** (Dr. Usman Almal)  
 Reference of the request letter # Nil

Dated: 30-09-2021  
 Dated: 30-09-2021

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

Date of Test 01-10-2021  
 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	0.385	3	0.380	0.11	0.113	4100	5100	82200	79830	102200	99300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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**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  
 Fabrication and Installation of Pedestrian Overhead Bridge Near Kalma Chowk, Across Ferozpur Road, Lahore

Reference # CED/TFL **37132** (Dr. Usman Almal)  
 Reference of the request letter # 4047-R2/13/RK/210

Dated: 30-09-2021  
 Dated: 05-09-2021

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

Date of Test 01-10-2021  
 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	0.378	3	0.376	0.11	0.111	3200	4600	64200	63520	92200	91300	1.30	16.3	
2	0.377	3	0.376	0.11	0.111	3200	4500	64200	63630	90200	89500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Project Manager  
 CM Engineering (Pvt) Ltd  
 Project CMPAK Site ID: 53236, 53207, 52992, 52931

Reference # CED/TFL **37134** (Dr. Usman Almal)  
 Reference of the request letter # CME/Steel/CMPAK/308

Dated: 30-09-2021  
 Dated: 29-09-2021

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

Date of Test 01-10-2021  
 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	0.373	10	9.50	0.12	0.110	3300	5100	60627	66260	93696	102500	1.30	16.3	
2	0.381	10	9.60	0.12	0.112	3400	5000	62464	66840	91858	98300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

Note:

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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 Manager  
 CM Engineering (Pvt) Ltd  
 Project CMPAK Site ID: 43223, 43342, 43374, 43474, 43480, 43518, 43284, 42970, 43997,  
 43224

Reference # CED/TFL **37135** (Dr. Usman Almal)  
 Reference of the request letter # CME/Steel/CMPAK/309

Dated: 30-09-2021  
 Dated: 30-09-2021

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

Date of Test 01-10-2021  
 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	0.376	10	9.53	0.12	0.111	3300	5100	60627	65770	93696	101700	0.90	11.3	
2	0.380	10	9.58	0.12	0.112	3300	5100	60627	65090	93696	100600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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[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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 Chief Engineer  
 Zaitoon  
 New Lahore City,  
 Lahore

Reference # CED/TFL **37139** (Dr. Usman Akmal)  
 Reference of the request letter # NLC/CE/Const./093

Dated: 01-10-2021  
 Dated: 01-10-2021

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

Date of Test 01-10-2021  
 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	0.370	3	0.372	0.11	0.109	4200	5000	84200	85180	100200	101400	0.60	7.5	Amberli Steel
2	0.367	3	0.371	0.11	0.108	4200	5000	84200	85720	100200	102100	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.**

Note:

- 1- You can See your reports On Internet in the following web site  
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