To,

Sub Divisional Officer
Sialkot Drainage Sub Division, Narowal.
Construction of V.R Bridge a RD.18+400 of DAUD Flood Bund

Reference # CED/TFL **7386** (Dr. M. Kashif) Dated: 18-08-2025
Reference of the request letter # 150/Daud Dated: 06-08-2025

Tension Test Report (Page -1/1)

Date of Test 27-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**12.70 (1/2")**	**430.0**	**778.0**	**17500**	**171.68**	**19400**	**190.31**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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

Test Performed and Verified by:

To,

Junaid (Pvt.) Ltd.
Manufacturing of Pre-cast Concrete Products/PC. Spun Poles

Reference # CED/TFL **7400** (Dr. M. Kashif) Dated: 21-08-2025
Reference of the request letter # jpl/uet-01 Dated: 21-08-2025

Tension Test Report (Page -1/4)

Date of Test 27-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3"/8)**	**430.0**	**440.0**	**8200**	**80.44**	**10000**	**98.10**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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

Test Performed and Verified by:

To,

Junaid (Pvt.) Ltd.
Manufacturing of Pre-cast Concrete Products/PC. Spun Poles

Reference # CED/TFL **7400** (Dr. M. Kashif) Dated: 21-08-2025
Reference of the request letter # jpl/uet-02 Dated: 21-08-2025

Tension Test Report (Page -2/4)

Date of Test 27-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**11.11 (7"/16)**	**582.0**	**577.0**	**13000**	**127.53**	**14200**	**139.30**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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

Test Performed and Verified by:

To,

Junaid (Pvt.) Ltd.
Manufacturing of Pre-cast Concrete Products/PC. Spun Poles

Reference # CED/TFL **7400** (Dr. M. Kashif) Dated: 21-08-2025
Reference of the request letter # jpl/uet-03 Dated: 21-08-2025

Tension Test Report (Page -3/4)

Date of Test 27-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**12.70 (1"/2)**	**780.0**	**777.0**	**18300**	**179.52**	**19800**	**194.24**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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

Test Performed and Verified by:

To,

Syed Touseen Ahmed (Sr. Project Manager)
Mount Khalid, Gulberg Greens- Islamabad.

Reference # CED/TFL **7418** (Dr. M. Kashif) Dated: 25-08-2025
Reference of the request letter # MKGG/MT/2025/PT-Strand/002 Dated: 23-08-2025

Tension Test Report (Page -1/3)

Date of Test 27-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	GPa		
1	**12.70 (1"/2)**	**780.0**	**784.0**	**17900**	**175.60**	**19200**	**188.35**	**204**	**>3.50**	**27497**
2	**12.70 (1"/2)**	**780.0**	**784.0**	**17800**	**174.62**	**18900**	**185.41**	**200**	**>3.50**	**27497**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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

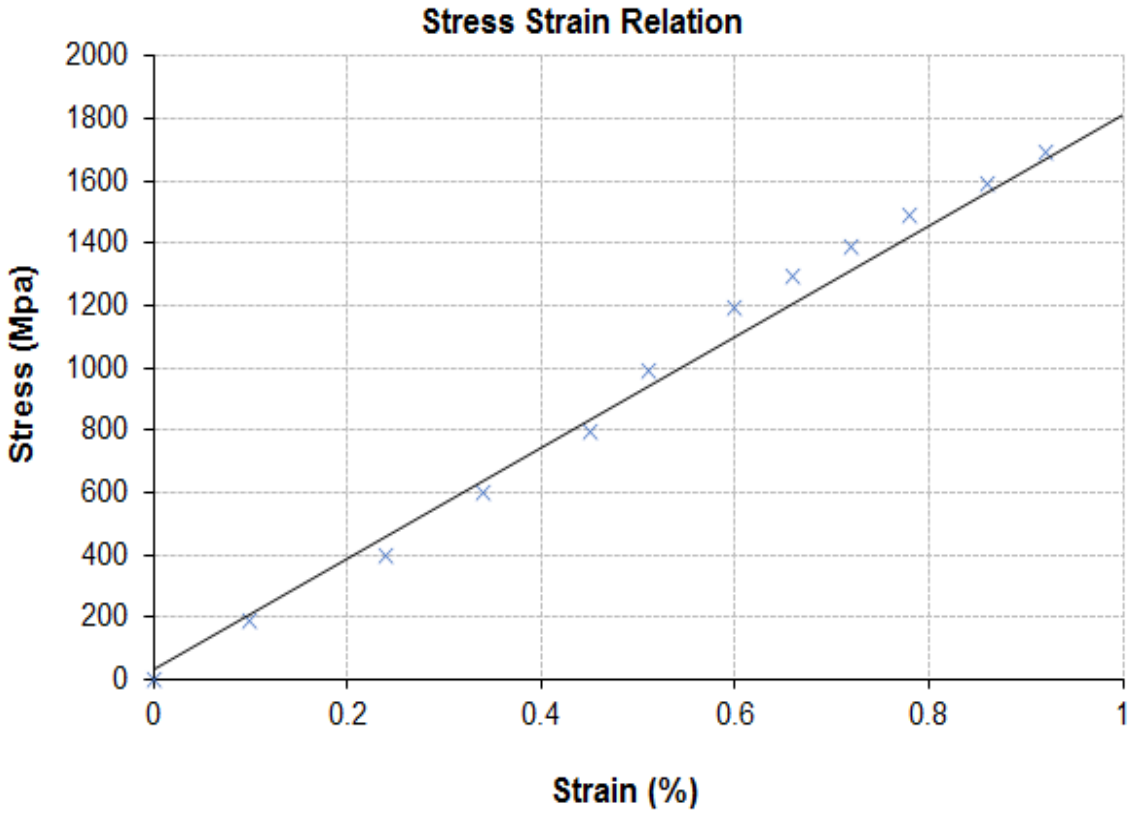
Test Performed and Verified by:

To,

Syed Touseen Ahmed (Sr. Project Manager)
Mount Khalid, Gulberg Greens- Islamabad.

Reference # CED/TFL **7418** (Dr. M. Kashif) Dated: 25-08-2025
Reference of the request letter # MKGG/MT/2025/PT-Strand/002 Dated: 23-08-2025

Graph (Page – 2/3)



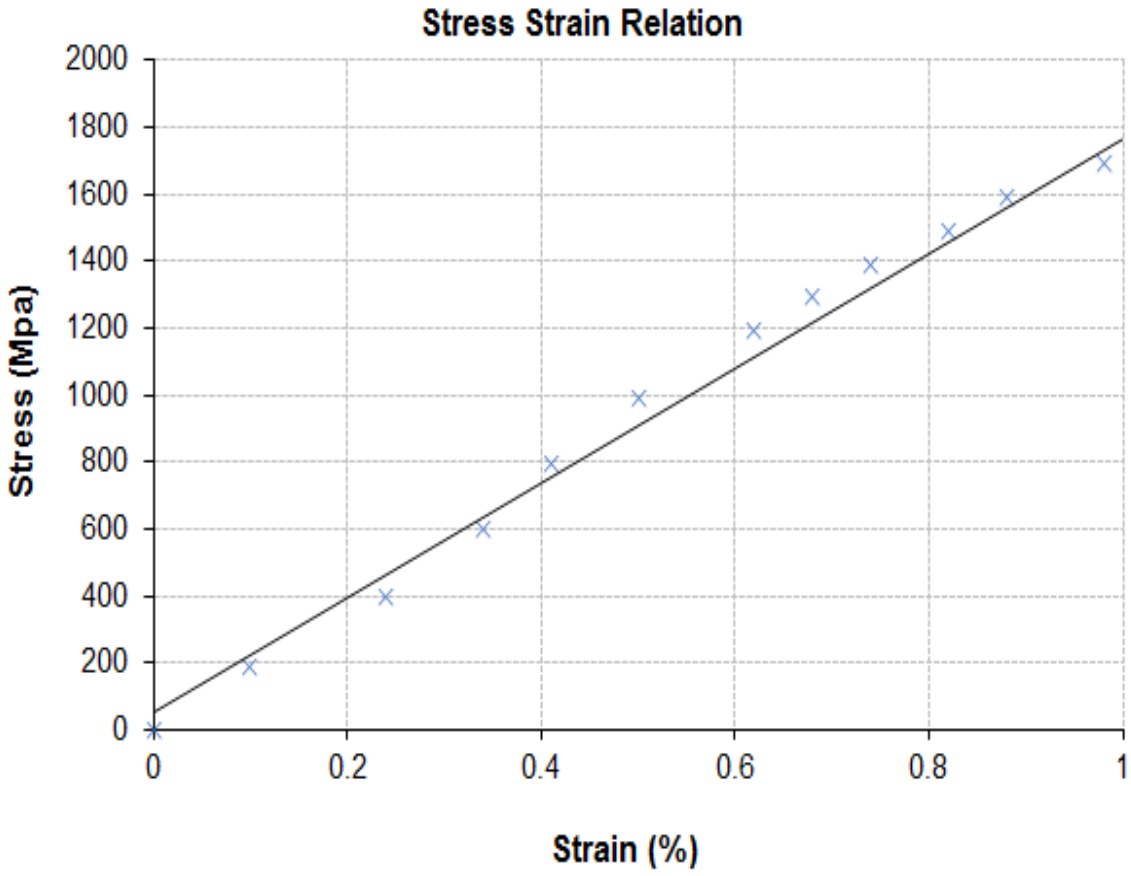
Test Performed and Verified by:

To,

Syed Touseen Ahmed (Sr. Project Manager)
Mount Khalid, Gulberg Greens- Islamabad.

Reference # CED/TFL **7418** (Dr. M. Kashif) Dated: 25-08-2025
Reference of the request letter # MKGG/MT/2025/PT-Strand/002 Dated: 23-08-2025

Graph (Page – 3/3)



Test Performed and Verified by:

To,

Mr. Sulman (Material Engineer)
BH Consultants
4-Storey Commercial Building Construction (Frame Structure)
(5-Star Steel)

Reference # CED/TFL **7421** (Dr. Usman Akmal) Dated: 26-08-2025
Reference of the request letter # 61 Dated: 26-08-2025

Tension Test Report (Page-1/1)

Date of Test 27-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.110	0.109	3000	4800	60109	60634	96175	97014	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Engr. Muhammad Salman Saqib (Resident Engineer)
ARY Laguna DHA Gujranwala
ARY Laguna Gateway & Pedestrian Crossover / Linear Park DHA Gujranwala
(Mughal Steel)

Reference # CED/TFL **7422** (Dr. Usman Akmal) Dated: 26-08-2025
Reference of the request letter # ARY(Gujr.)/GL/Eng/RE/045/25 Dated: 25-08-2025

Tension Test Report

Date of Test 27-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.369**	**3**	**0.372**	**0.110**	**0.108**	**3800**	**4700**	**76138**	**77245**	**94171**	**95540**	**1**	**12.5**	-
2	**0.370**	**3**	**0.372**	**0.110**	**0.109**	**3700**	**4700**	**74135**	**74914**	**94171**	**95161**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Babar Shehzad (Manager Civil)
United Industries Ltd.
-

Reference # CED/TFL **7423** (Dr. Usman Akmal) Dated: 27-08-2025
Reference of the request letter # Nil Dated: 25-08-2025

Tension Test Report (Page-1/1)

Date of Test 27-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3	0.374	0.110	0.1101	3200	5000	64116	64065	100182	100102	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Mr. M. Waqas Ahmad
M. D. Construction Co.
Construction of MPT Building at PARCO Terminal TS-4

Reference # CED/TFL **7427** (Dr. M Kashif) Dated: 27-08-2025
Reference of the request letter # Nil Dated: 27-08-2025

Tension Test Report (Page-1/1)

Date of Test 27-08-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (mm)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.373**	**10**	**0.374**	**0.120**	**0.11**	**36.50**	**46.20**	**68352**	**74847**	**86517**	**94738**	**1.0**	**12.5**	-
2	**0.372**	**10**	**0.373**	**0.120**	**0.109**	**35.70**	**45.20**	**66854**	**73452**	**84644**	**92998**	**1.0**	**12.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test
10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by: