



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

Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore
(United Wire Industries Pvt. Ltd.)

Reference # CED/TFL **3754** (Dr. Rizwan Riaz)

Dated: 16-08-2023

Reference of the request letter# 4537/03/MSA/09/98

Dated: 07-08-2023

Tension Test Report (Page -1/1)

Date of Test 22-08-2023

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)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	12.70 (1/2")	775.0	781.0	17800	174.62	20000	196.20	>3.50	3985
2	12.70 (1/2")	775.0	785.0	18000	176.58	19500	191.30	>3.50	4000
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	

Only two samples for Test

To,

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
- 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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Assistant Executive Engineer,
Pakistan Railways, Jhelum
(Proposed Road Underpass Bridge (1 x 74'-9") at km. 1375/2-3 between Choa Kariala –
Kharian Stations on Lalamusa - Rawalpindi.)

Reference # CED/TFL **3766** (Dr. Rizwan Azam)
Reference of the request letter # 29-W/Golf Residencia.

Dated: 18-08-2023
Dated: 18-08-2023

Tension Test Report (Page -1/2)

Date of Test 22-08-2023
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	791.0	17700	173.64	19500	191.30	199	>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

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To,

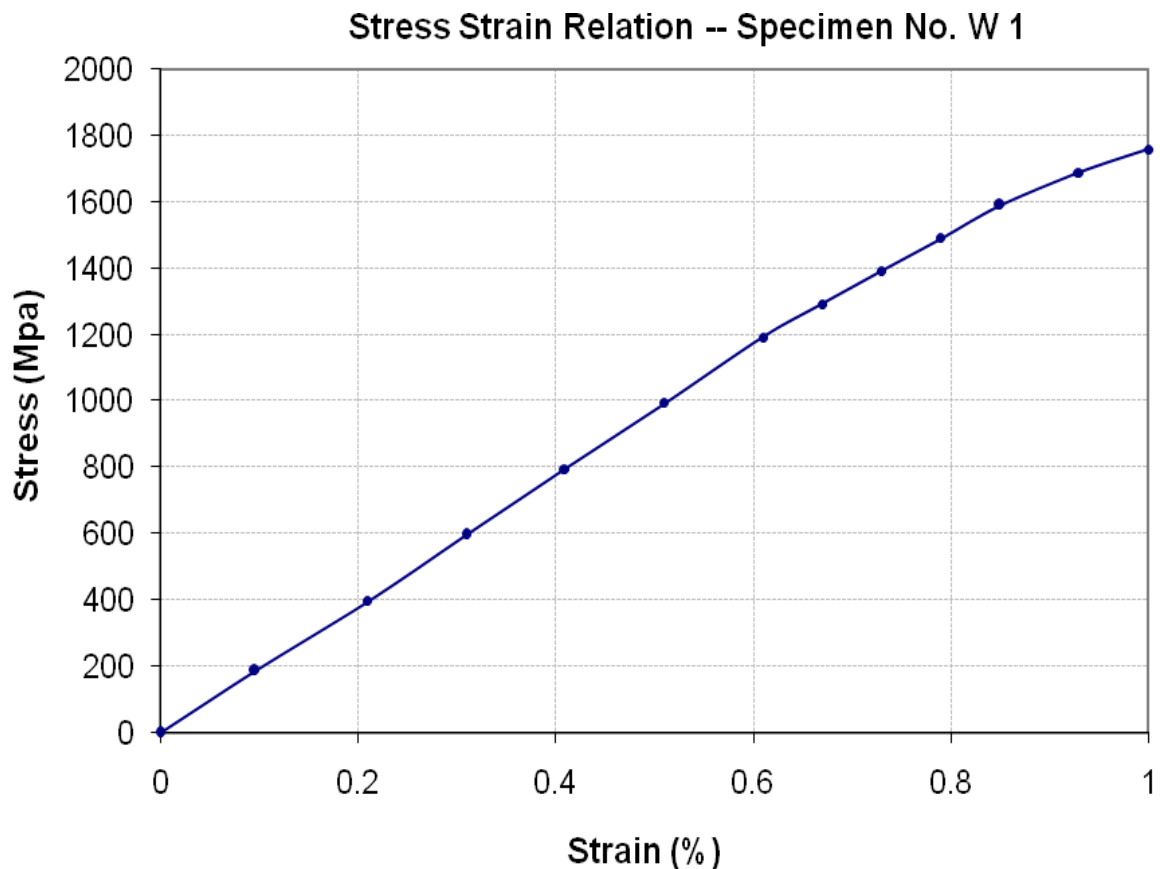
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Reference # CED/TFL **3766** (Dr. Rizwan Azam)
Reference of the request letter # 29-W/Golf Residencia.

Dated: 18-08-2023

Dated: 18-08-2023

Graph (Page – 2/2)



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To,

A/XEN E&M

GE (Air) Rafoqui

“Construction of Main Briefing Room with Allied Facilities at HQ No. 50 TA sqn at PAF Base Rafiqui.”

Reference # CED/TFL **3770** (Dr. M Rizwan Riaz)

Dated: 21-08-2023

Reference of the request letter # 6689/24/E-6

Dated: 18-08-2023

Tension Test Report (Page -1/2)

Date of Test 22-08-2023

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 ²)		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	0.366	3/8	0.370	0.11	0.108	3800	4800	76200	77790	96200	98300	1.00	12.5	
2	0.365	3/8	0.370	0.11	0.107	3800	4800	76200	78020	96200	98600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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