



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

To,

Adnan Jamil
Civil Engineer
National Management Foundation
Construction of “Yusuf Shirazi Complex” at LUMS Campus.

Reference # CED/TFL **4917** (Dr. Usman Akmal)
Reference of the request letter # NMF/GM/C-39/856

Dated: 05-04-2024
Dated: 04-04-2024

Tension Test Report (Page -1/3)

Date of Test 16-04-2024
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")	780.0	781.0	17600	172.66	18800	184.43	199	>3.50	xx
2	12.70 (1/2")	780.0	781.0	18100	177.56	19000	186.39	199	>3.50	xx
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-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	
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

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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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,

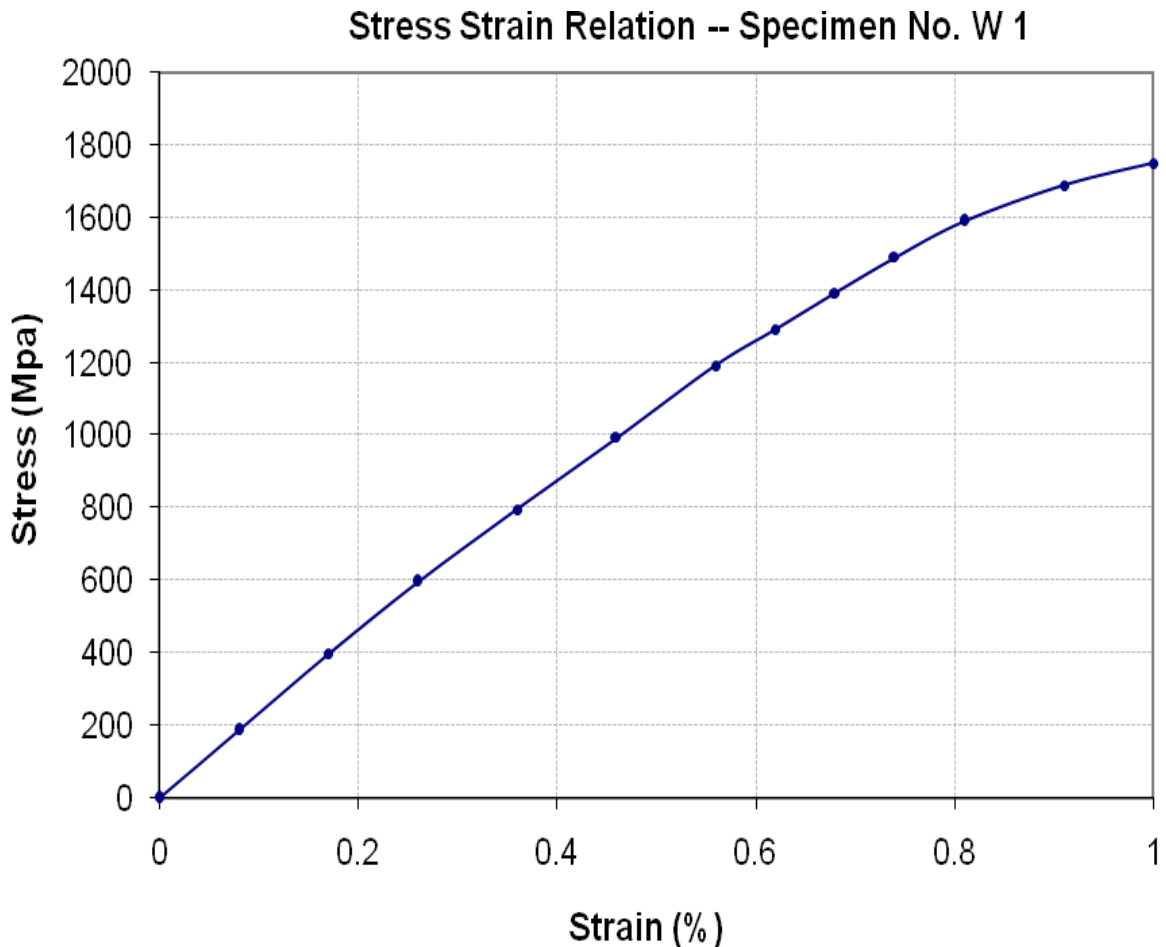
Adnan Jamil
Civil Engineer
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Reference # CED/TFL **4917** (Dr. Usman Akmal)
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Dated: 05-04-2024

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Graph (Page – 2/3)



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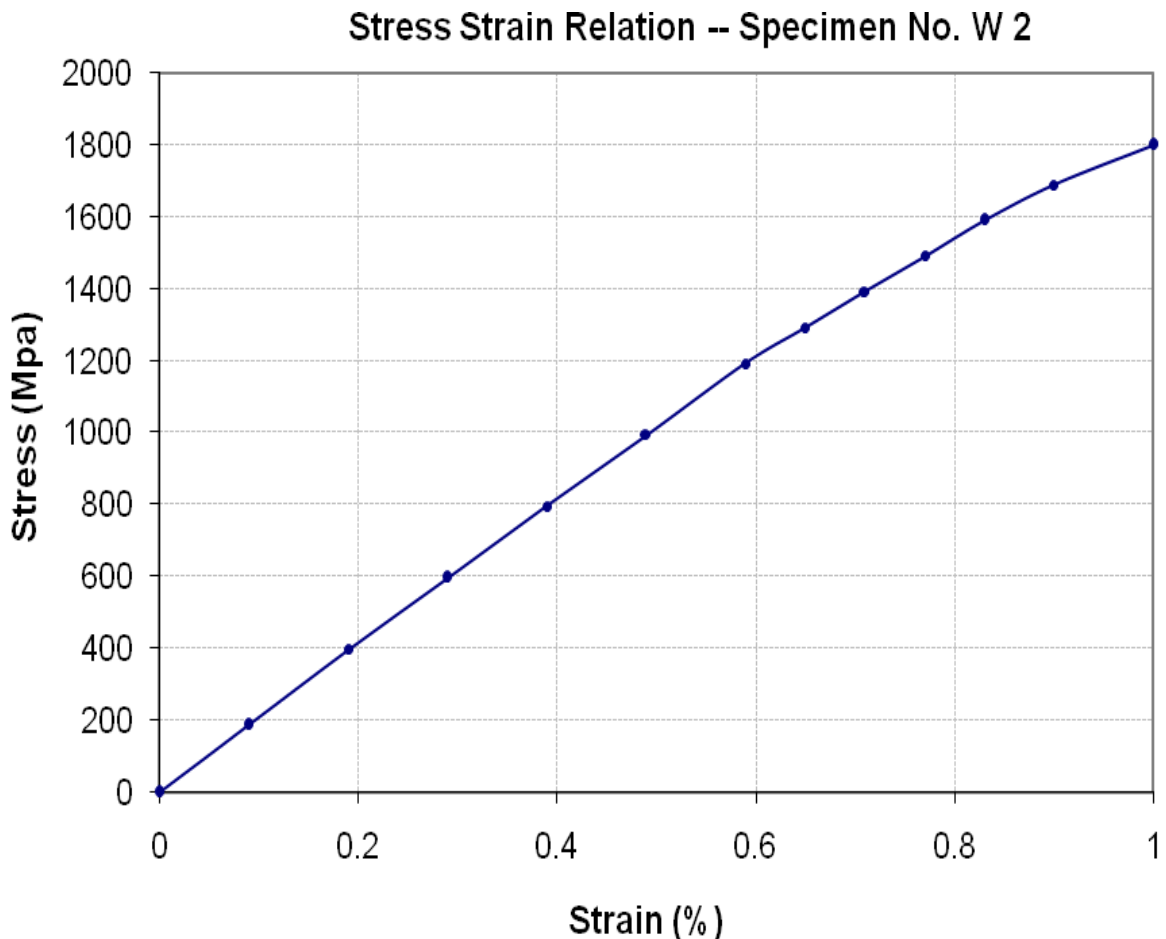
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Graph (Page – 3/3)



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UET Lahore, Pakistan.

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To,
M/S Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **4921** (Dr. Usman Akmal)
Reference of the request letter # VECO/2024/0408/001

Dated: 08-04-2024
Dated: 08-04-2024

Tension Test Report (Page – 1/1)

Date of Test 16-04-2024
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	9.53 (3/8")	430.0	444.0	9600	94.18	10800	105.95	>3.50	1
2	9.53 (3/8")	430.0	446.0	10000	98.10	10800	105.95	>3.50	2
3	9.53 (3/8")	430.0	446.0	9800	96.14	10700	104.97	>3.50	3
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Only three samples for Test

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To,
 Director Projects
 Sheekhoo Sugar Mills (Steel Division)
 Sheekhoo Steel
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **4926** (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 16-04-2024
 Dated: 14-04-2024

Tension Test Report (Page -1/1)

Date of Test 16-04-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		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	0.367	3	0.371	0.11	0.108	3620	4910	72600	73880	98400	100300	1.20	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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