



**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 Vision Engineering (Pvt) Ltd  
Lahore

Reference # CED/TFL **4603** (Dr. M Rizwan Riaz)  
Reference of the request letter # VECO/2024/01/02/9880

Dated: 02-02-2024

Dated: 01-02-2024

**Tension Test Report** (Page – 1/2)

Date of Test 12-02-2024

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	435.0	10100	99.08	11000	107.91	>3.50	1
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one samples for Test									

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

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M/S Vision Engineering (Pvt) Ltd  
Lahore

Reference # CED/TFL **4603** (Dr. M Rizwan Riaz)  
Reference of the request letter # VECO/2024/01/02/9880-A

Dated: 02-02-2024  
Dated: 01-02-2024

**Tension Test Report** (Page – 2/2)

Date of Test 12-02-2024  
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	432.0	9200	90.25	11000	107.91	>3.50	3
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one samples for Test									

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To,

Chief Resident Engineer  
Zeeruk International (Pvt) Ltd.  
Sialkot Kharian Motorway Project.  
(Ibrahim Nizami)

Reference # CED/TFL **4607** (Dr. M Rizwan Riaz)  
Reference of the request letter # SKMP/CRE/2024/0226

Dated: 02-02-2024  
Dated: 02-02-2024

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

Date of Test 12-02-2024  
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	785.0	17500	171.68	19200	188.35	198	>3.50	xx
2	12.70 (1/2")	780.0	783.0	18200	178.54	20000	196.20	199	>3.50	xx
3	12.70 (1/2")	780.0	785.0	17900	175.60	19000	186.39	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**  
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To,

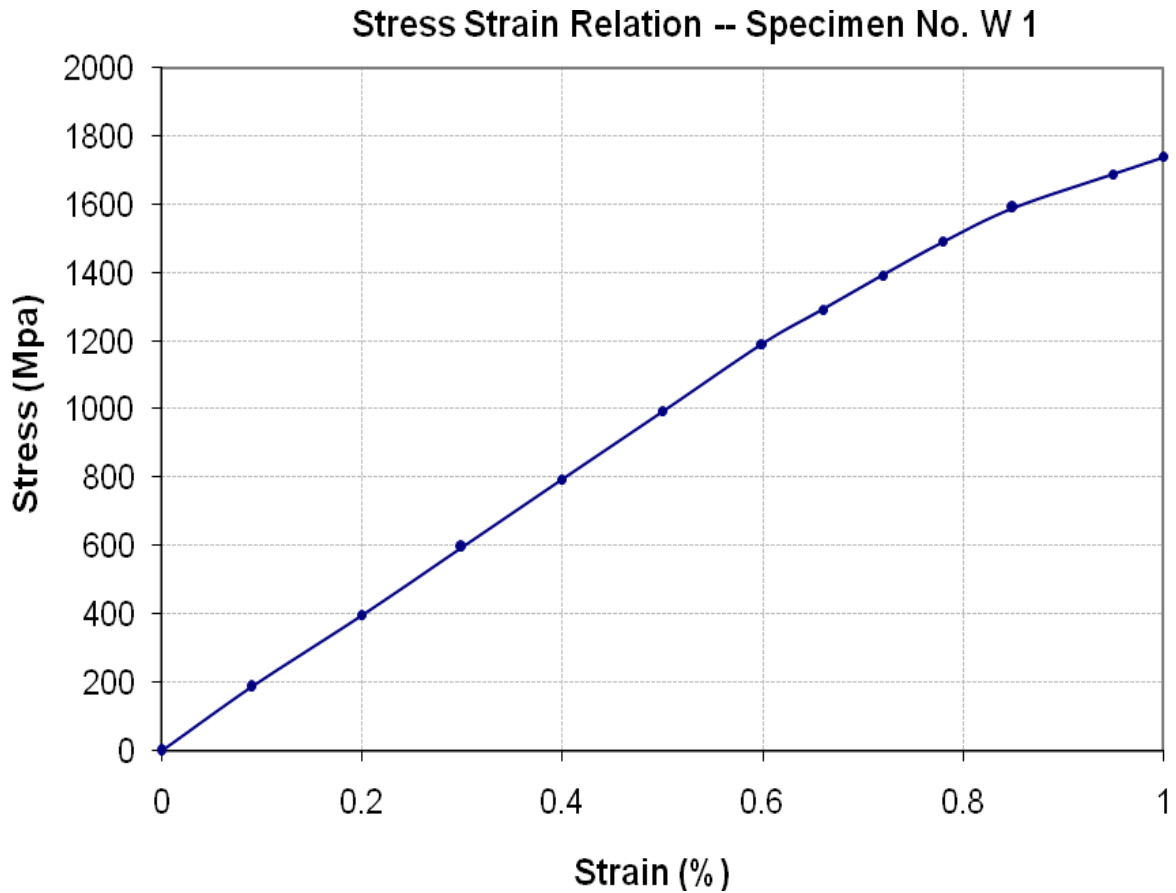
Chief Resident Engineer  
Zeeruk International (Pvt) Ltd.  
Sialkot Kharian Motorway Project.  
(Ibrahim Nizami)

Reference # CED/TFL **4607** (Dr. M Rizwan Riaz)  
Reference of the request letter # SKMP/CRE/2024/0226

Dated: 02-02-2024

Dated: 02-02-2024

**Graph** (Page – 2/4)



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

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To,

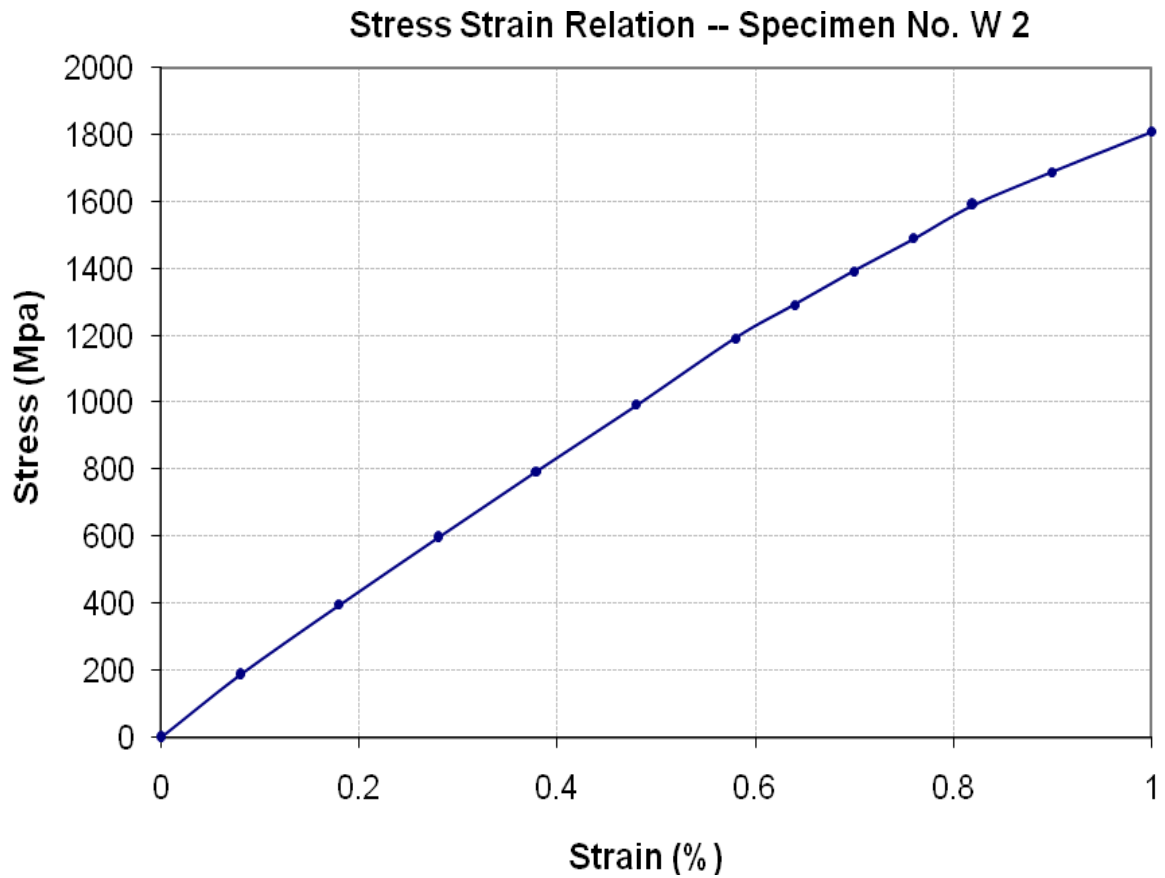
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(Ibrahim Nizami)

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Reference of the request letter # SKMP/CRE/2024/0226

Dated: 02-02-2024

Dated: 02-02-2024

**Graph** (Page – 3/4)



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**UET Lahore, Pakistan.**

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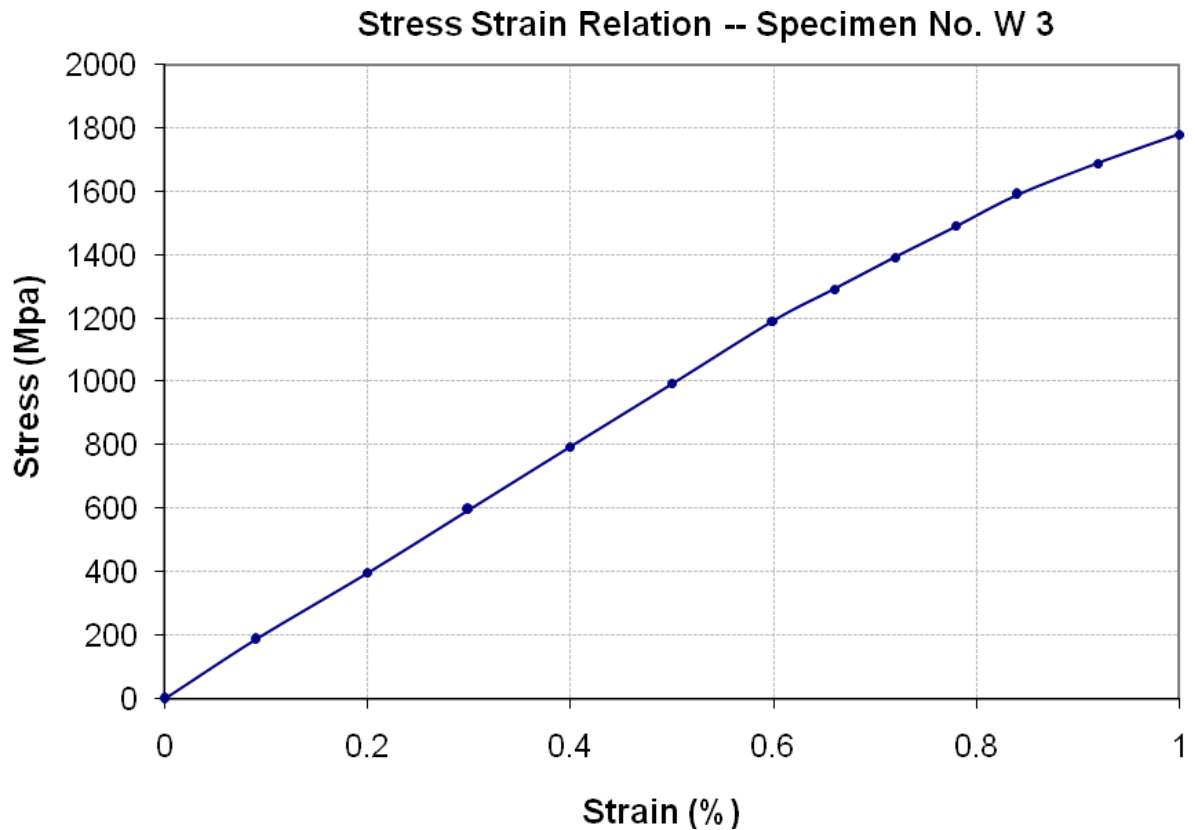
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(Ibrahim Nizami)

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Reference of the request letter # SKMP/CRE/2024/0226

Dated: 02-02-2024

Dated: 02-02-2024

**Graph** (Page – 4/4)



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Ref: CED/TFL/02/4608

Dated: 12-02-2024

Date of Test: 12-02-2024

To,

**Project Manager**  
**AJK Engineers (Pvt) Ltd.**  
**Islamabad**

**Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/4608) (Page # 1/1)**

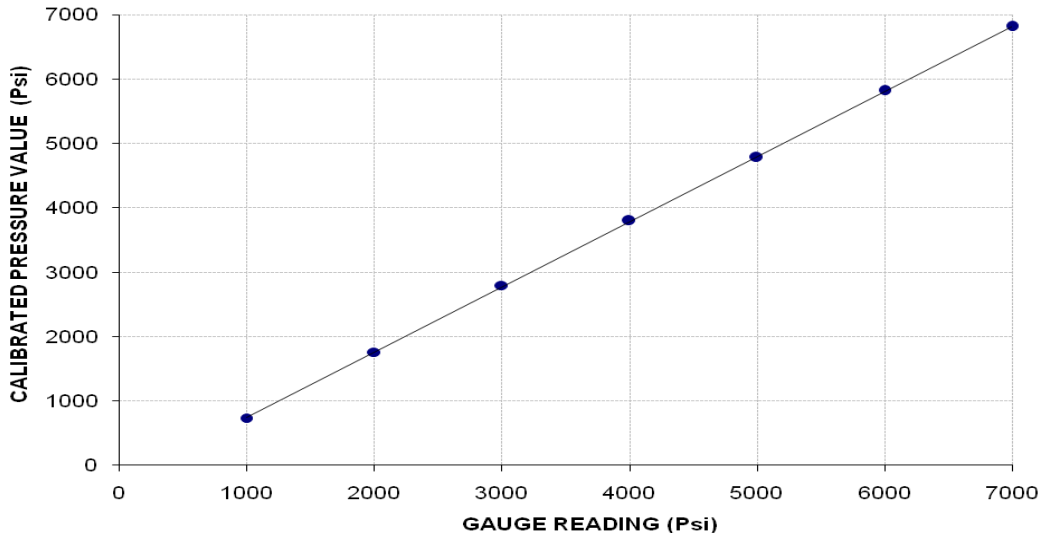
Reference to your Letter No. AJK/UET/2024/02/001, Dated: 12/02/2024 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 10000 (Psi)**  
**Calibrated Range : Zero - 7000 (Psi)**

Pressure Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000	7000
Calibrated Load (kg)	10300	24500	38900	52900	66600	81000	94900
Calibrated Pressure (Psi)	740	1760	2794	3800	4784	5819	6817

The Ram Area for Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge No. EN 837-1**  
**Calibrated Value (Psi) = (1.012 × Gauge Reading (Psi)) - 260.6**



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To,

Project Manager  
M/S High-Q Constructions  
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **4609** (Dr. Asad Ali)  
Reference of the request letter # QC/HQ/CIVIL/182

Dated: 12-02-2024  
Dated: 09-02-2024

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

Date of Test 12-02-2024  
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	0.422	10	10.10	0.12	0.124	3840	5150	70547	68210	94614	91500	1.20	15.0	
2	0.420	10	10.07	0.12	0.123	3820	5150	70180	68210	94614	92000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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To,  
Manager  
ABL – UML P-199 & 200  
Allied Bank  
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **4613** (Dr. Asad Ali)

Dated: 12-02-2024

Reference of the request letter # ABL-UML-AMC-QAQC; 61

Dated: 12-02-2024

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

Date of Test 12-02-2024

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	0.368	3	0.371	0.11	0.108	3790	5050	76000	77270	101200	103000	1.00	12.5	Kamran Steel	
2	0.366	3	0.370	0.11	0.107	3620	4740	72600	74260	95000	97300	1.10	13.8		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<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**  
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To,

Sub Divisional Officer  
The Punjab Employees' Social Security Institution  
Construction of Lift Well for Bed Lift at Khawaja Farid Social Security Hospital at  
Multan.

Reference # CED/TFL **4618** (Dr. Asad Ali)  
Reference of the request letter # Ss. W.W()/24/119

Dated: 12-02-2024  
Dated: 06-02-2024

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

Date of Test 12-02-2024  
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	0.372	3/8	0.373	0.11	0.109	3640	5200	73000	73400	104200	104900	1.00	12.5	Ittefaq Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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