



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 **2362** (Dr. M Rizwan Riaz)
Reference of the request letter # VECO/2022/1128/7542

Dated: 28-11-2022
Dated: 28-11-2022

Tension Test Report (Page -1/2)

Date of Test 01-12-2022
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.154	5	5.00	-----	19.60	-----	1600	-----	800	0.4	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
UET Lahore, Pakistan.

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Reference # CED/TFL **2362** (Dr. M Rizwan Riaz)
Reference of the request letter # VECO/2022/1128/7542

Dated: 28-11-2022
Dated: 28-11-2022

Tension Test Report (Page -2/2)

Date of Test 01-12-2022
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")	432.0	433.0	9100	89.27	10900	106.93	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

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To,

Sub Divisional Officer (Buildings)
 Sub Division Ferozewala
 (Construction of Judicial Academy at Lahore Kala Shah Kaku, Lahore)

Reference # CED/TFL **2378** (Dr. M Rizwan Riaz)
 Reference of the request letter # 5005/F

Dated: 30-11-2022
 Dated: 17-11-2022

Tension Test Report (Page -1/1)

Date of Test 01-12-2022
 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	0.384	3/8	0.379	0.11	0.113	3380	5170	67800	66000	103600	101000	1.20	15.0	SJ Steel
2	0.390	3/8	0.382	0.11	0.115	3490	5320	70000	67120	106600	102400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,

Resident Engineer
NESPAK

Dualization of Road from Gujranwala to M-2 Interchange at Kot Sawar via Hafizabad km
6.20 to km 80.35 Length 74.15 km in District Gujranwala & Hafizabad

Reference # CED/TFL **2379** (Dr. M Rizwan Riaz)

Dated: 30-11-2022

Reference of the request letter # SA-466F/103/GH/ML/Lab/57

Dated: 29-11-2022

Tension Test Report (Page -1/4)

Date of Test 01-12-2022

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	17200	168.73	19100	187.37	198	>3.50	143
2	12.70 (1/2")	775.0	785	17300	169.71	19200	188.35	199	>3.50	143
3	12.70 (1/2")	775.0	793	17700	173.64	19300	189.33	199	>3.50	145
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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

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To,

Resident Engineer
NESPAK

Dualization of Road from Gujranwala to M-2 Interchange at Kot Sawar via Hafizabad km
6.20 to km 80.35 Length 74.15 km in District Gujranwala & Hafizabad

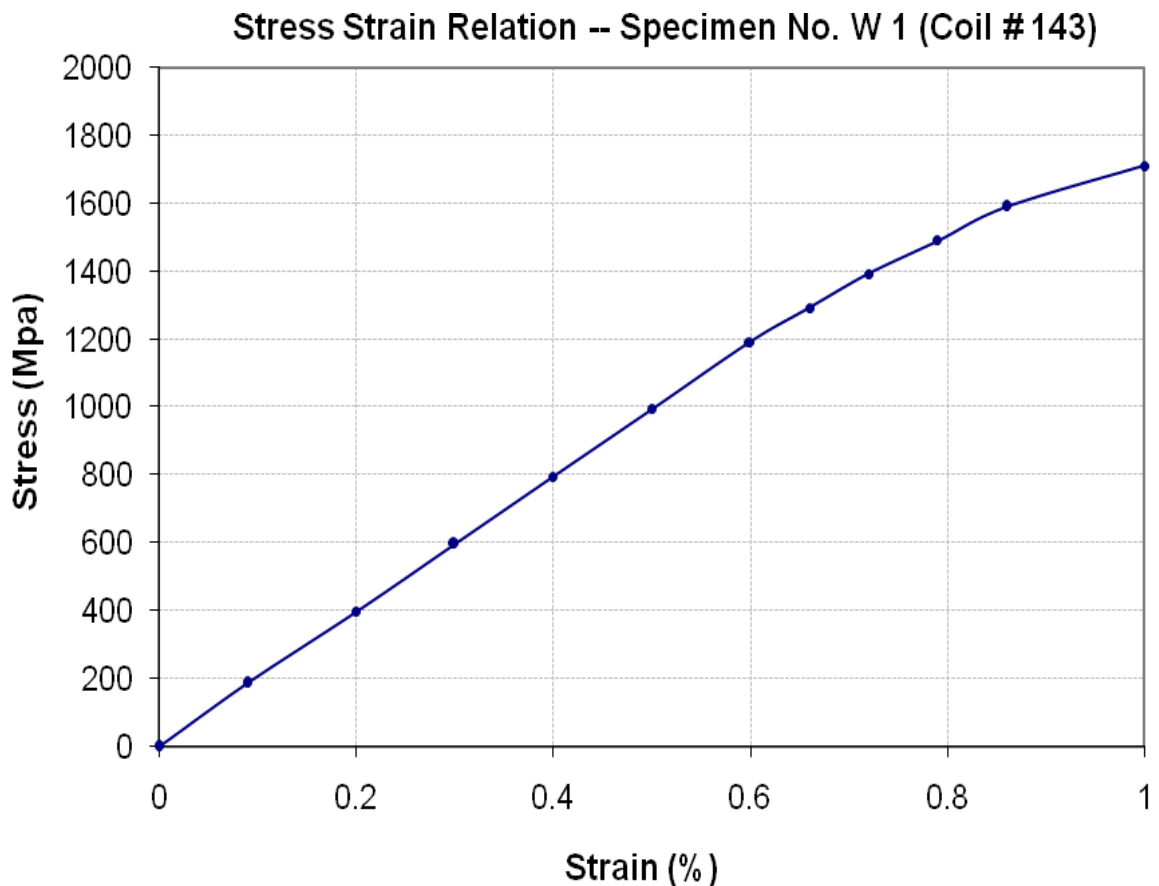
Reference # CED/TFL **2379** (Dr. M Rizwan Riaz)

Dated: 30-11-2022

Reference of the request letter # SA-466F/103/GH/ML/Lab/57

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Graph (Page – 2/4)



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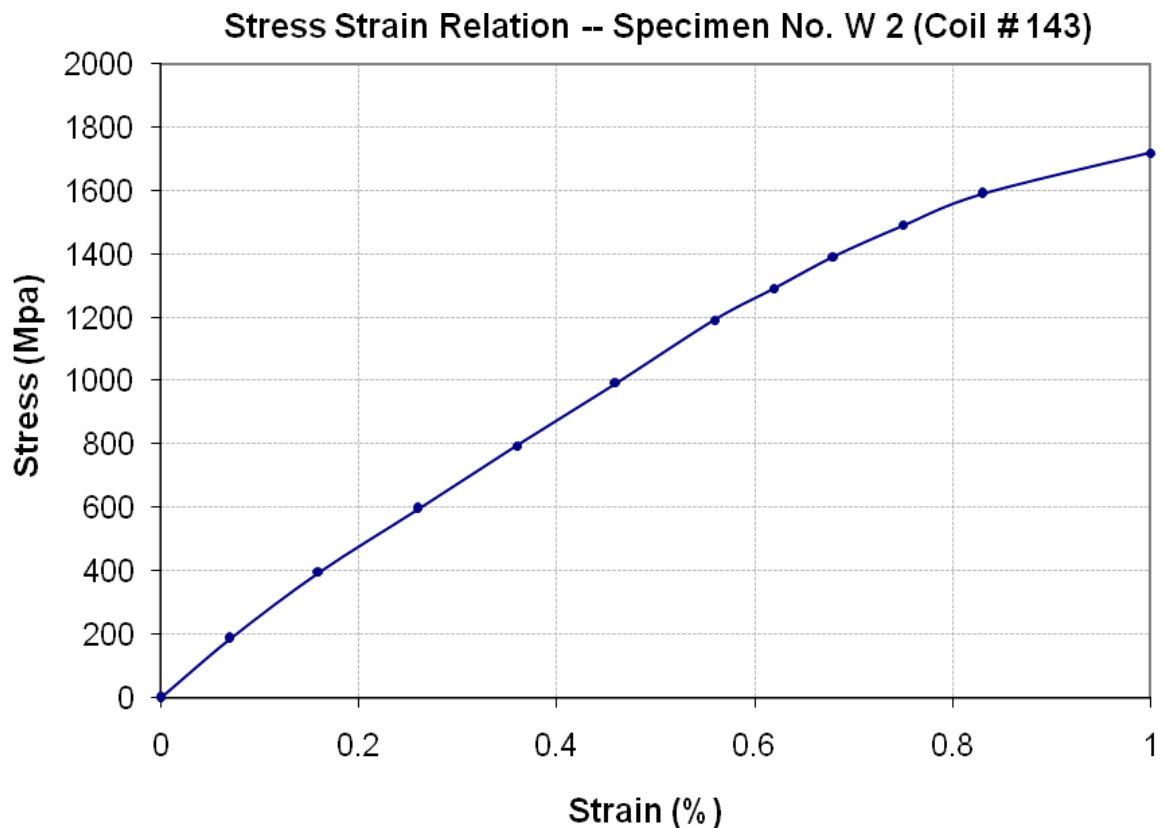
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Dated: 30-11-2022

Reference of the request letter # SA-466F/103/GH/ML/Lab/57

Dated: 29-11-2022

Graph (Page – 3/4)



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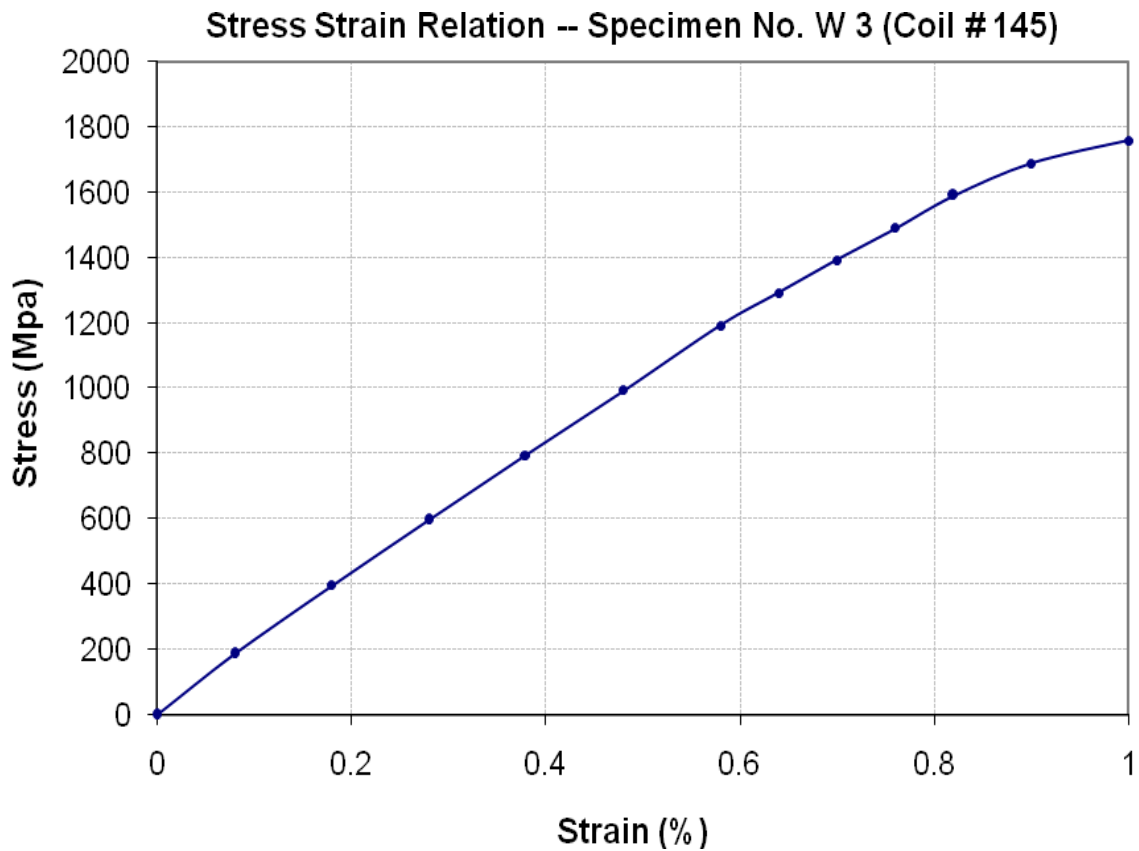
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Reference of the request letter # SA-466F/103/GH/ML/Lab/57

Dated: 29-11-2022

Graph (Page – 4/4)



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To,

Sub Divisional Officer
 Public Health Engg: Sub Division
 Sargodha
 (Water Supply Scheme Cheema Colony District Sargodha)

Reference # CED/TFL **2381** (Dr. Waseem Abbass)
 Reference of the request letter # 559

Dated: 30-11-2022
 Dated: 16-11-2022

Tension Test Report (Page -1/1)

Date of Test 01-12-2022
 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	0.365	3/8	0.370	0.11	0.107	3360	4950	67400	69040	99200	101800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Bar Bend Test Through 180° is Satisfactory														

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To,
 M/S Prime Steel Re-Rolling Mills
 Sheikhpura

Reference # CED/TFL **2384** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 01-12-2022
 Dated: 01-12-2022

Tension Test Report (Page -1/1)

Date of Test 01-12-2022
 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 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	0.408	3	0.391	0.11	0.120	3920	5560	78600	72080	111500	102300	1.60	20.0	Prime Steel
2	0.399	3	0.386	0.11	0.117	3960	5200	79400	74450	104200	97800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

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