



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

To,
 Executive Engineer PWD
 PHE Division Bhimber A.K
 (Water Supply Scheme THQ Samahni District Bhimber A.K)

Reference # CED/TFL **36289** (Dr. Qasim Khan)
 Reference of the request letter # 190-93/XEN/PHE/2021

Dated: 30-03-2021
 Dated: 16-03-2021

Tension Test Report (Page – 1/3)

Date of Test 13-04-2021
 Gauge length 2 inches
 Description G.I Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	G.I Pipe	1.5	25.40x3.10	78.74	2800	3200	348.84	398.68	0.30	15.00	
2			25.40x3.10	78.74	2900	3300	361.30	411.14	0.30	15.00	
3	G.I Pipe	2	25.30x3.70	93.61	3600	4900	377.27	513.50	0.40	20.00	
4			25.25x3.75	94.69	3500	4800	362.61	497.30	0.40	20.00	
5	G.I Pipe	3	25.40x3.90	99.06	3800	4300	376.32	425.83	0.40	20.00	
6			25.40x3.80	96.52	3800	4200	386.22	426.88	0.50	25.00	
7	G.I Pipe	4	25.30x4.20	106.26	4400	4800	406.21	443.14	0.20	10.00	
8			25.30x4.20	106.26	4400	4800	406.21	443.14	0.25	12.50	
9	G.I Pipe	6	25.40x5.80	147.32	7100	7800	472.79	519.40	0.40	20.00	
10			25.40x5.80	147.32	7200	8000	479.45	532.72	0.40	20.00	

Only Ten Samples for Tensile and Five Samples for Bend Test

Bend Test

Strip Taken from G.I Pipe (1.5") Bend Test Through 180° is Satisfactory
 Strip Taken from G.I Pipe (2") Bend Test Through 180° is Satisfactory
 Strip Taken from G.I Pipe (3") Bend Test Through 180° is Satisfactory
 Strip Taken from G.I Pipe (4") Bend Test Through 180° is Satisfactory
 Strip Taken from G.I Pipe (6") Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
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Note:

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To,
Executive Engineer PWD
PHE Division Bhimber A.K
(Water Supply Scheme THQ Samahni District Bhimber A.K)

Reference # CED/TFL 36289 (Dr. Qasim Khan)
Reference of the request letter # 190-93/XEN/PHE/2021

Dated: 30-03-2021
Dated: 16-03-2021

Seamless/Flattening Test Report (Page – 2/3)

Date of Test 13-04-2021
Description G.I Pipe Seamless Test as per ASTM-A53-02

Sr. No.	Designation	Test Type	Observation/Results
1	Pipe 1.5"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	Pipe 2"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
3	Pipe 3"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
4	Pipe 4"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
5	Pipe 6"	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
-	-	-	-
-	-	-	-
Only Five Samples for Test			

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To,
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(Water Supply Scheme THQ Samahni District Bhimber A.K)

Reference # CED/TFL 36289 (Dr. Qasim Khan)
Reference of the request letter # 190-93/XEN/PHE/2021

Dated: 30-03-2021
Dated: 16-03-2021

Weight & Size Test Report (Page – 3/3)

Date of Test 13-04-2021
Description G.I Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	1.5	204	60.00	3.40	48.10	41.90	3.10	
2	2	304	59.80	5.08	60.60	53.40	3.60	
3	3	480	60.00	8.00	88.80	81.00	3.90	
4	4	687	59.90	11.47	113.10	104.70	4.20	
5	6	1317	58.40	22.55	165.40	154.10	5.65	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Five Samples for Test								

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To,
Resident Engineer / Team Leader
Prime Engineering Consultancy
Kallurkot Bridge Project
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **36323** (Dr. Qasim Khan)
Reference of the request letter # KK-DIK-BR-PJ/2021/284

Dated: 12-04-2021
Dated: 11-04-2021

Tension Test Report (Page – 1/3)

Date of Test 13-04-2021
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	781.0	18200	178.54	20300	199.14	198	>3.50	xx
2	12.70 (1/2")	775.0	782.0	18800	184.43	20200	198.16	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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

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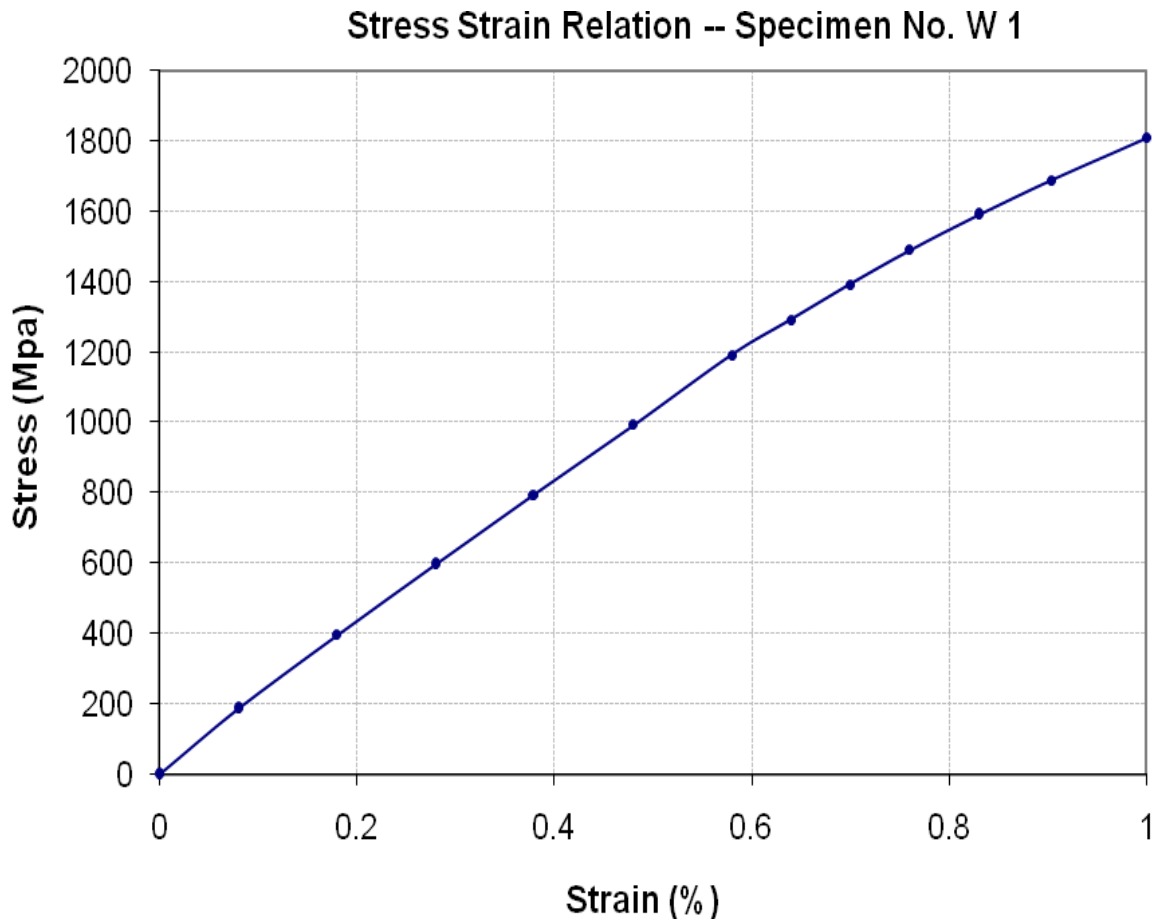
To,
Resident Engineer / Team Leader
Prime Engineering Consultancy
Kallurkot Bridge Project
Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **36323** (Dr. Qasim Khan)
Reference of the request letter # KK-DIK-BR-PJ/2021/284

Dated: 12-04-2021

Dated: 11-04-2021

Graph (Page – 2/3)



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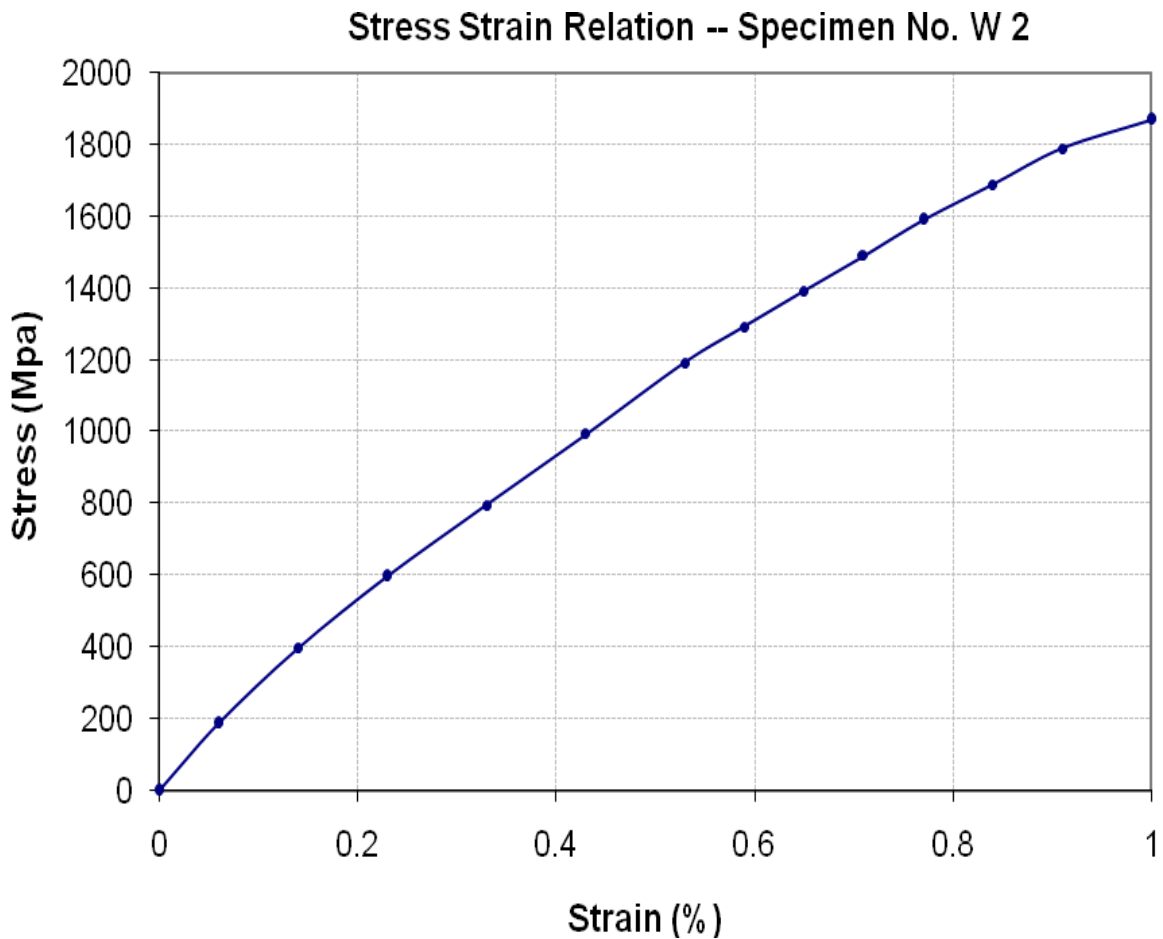
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Graph (Page – 3/3)



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To,
Snr. Lab Tech/OIC
DBH JVMC, Project
DBH JV Projects
DHA Homes Islamabad

Reference # CED/TFL **36326** (Dr. Qasim Khan)
Reference of the request letter # DBH/JVMC/QA/QC/2021/01/UET

Dated: 12-04-2021
Dated: 12-04-2021

Tension Test Report (Page – 1/4)

Date of Test 13-04-2021
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	785.0	18500	181.49	20100	197.18	199	>3.50	xx
2	12.70 (1/2")	775.0	783.0	18500	181.49	20100	197.18	198	>3.50	xx
3	12.70 (1/2")	775.0	788.0	18700	183.45	20100	197.18	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
UET Lahore, Pakistan.

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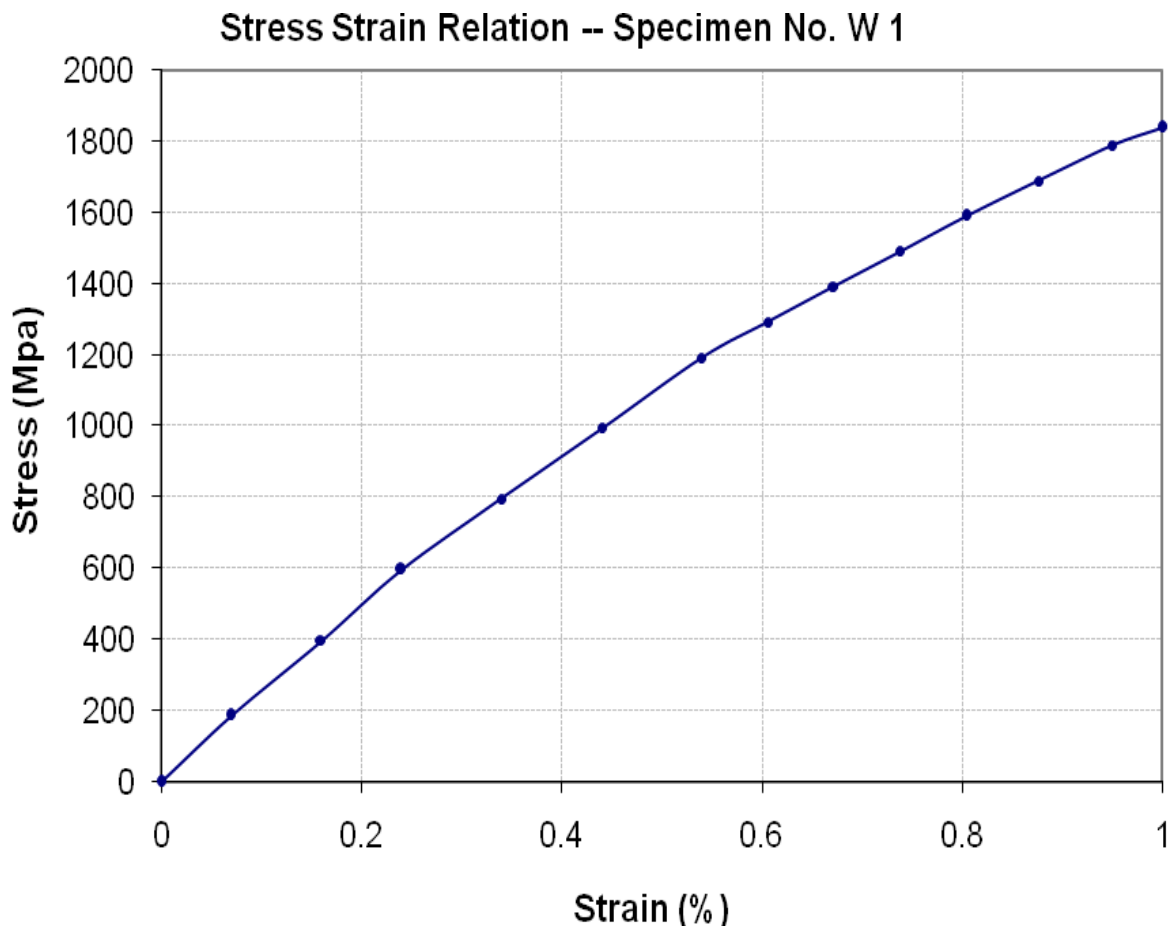
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Dated: 12-04-2021
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Graph (Page – 2/4)



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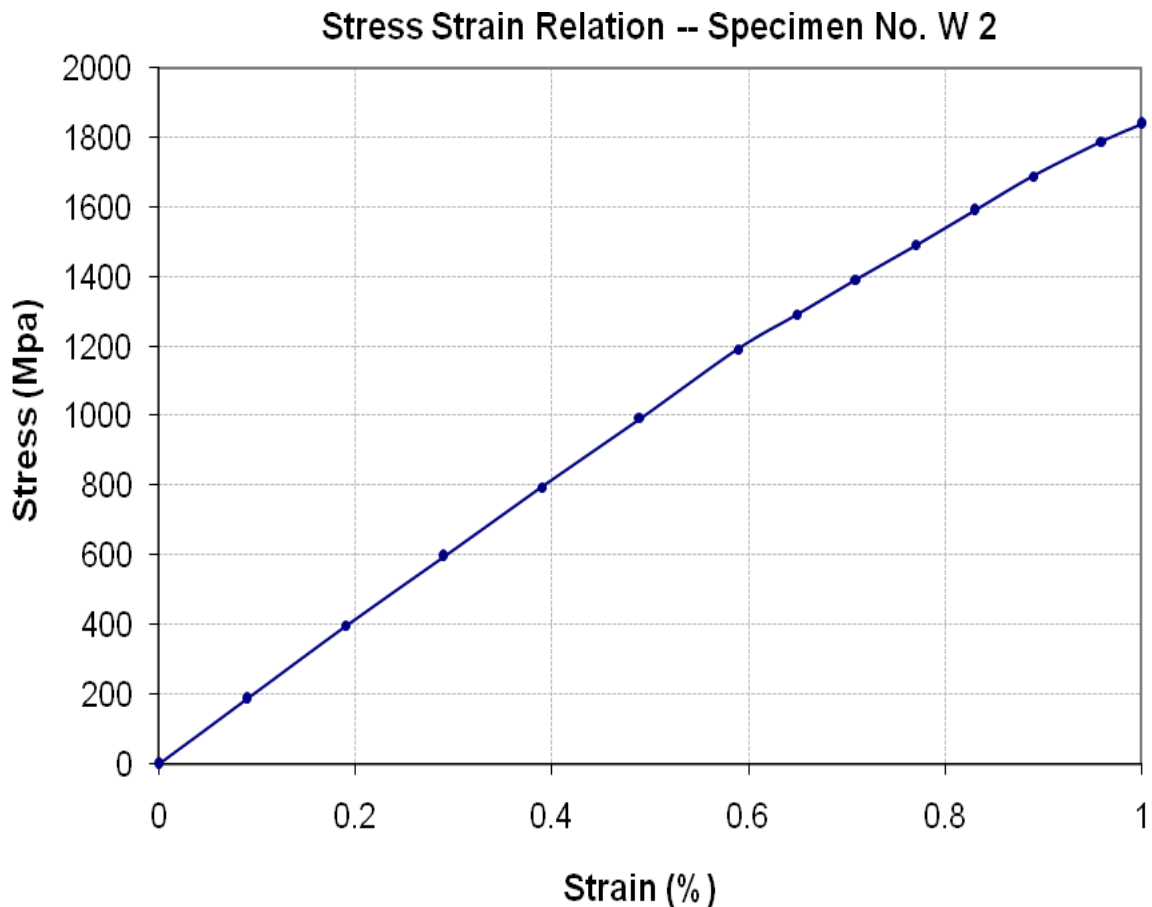
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Graph (Page -3/4)



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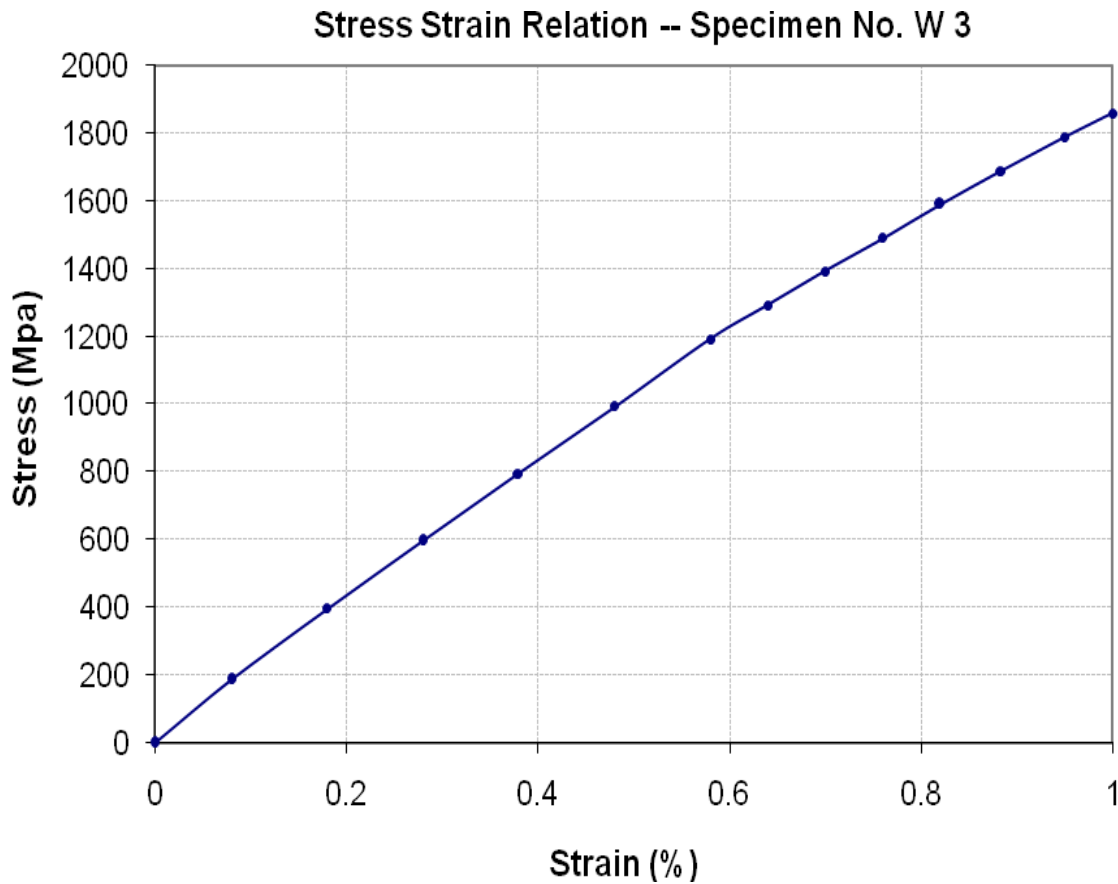
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Dated: 12-04-2021
Dated: 12-04-2021

Graph (Page – 4/4)



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To,
Resident Engineer
NESPAK
Construction of Shatiiial – Thor Nullah Bypass (Relocation of KKH) Including Link Road to Existing KKH

Reference # CED/TFL **36328** (Dr. Qasim Khan)
Reference of the request letter # SA-263/STNBP/RE/KU/134

Dated: 12-04-2021
Dated: 07-04-2021

Tension Test Report (Page – 1/3)

Date of Test 13-04-2021
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	784.0	17400	170.69	19300	189.33	199	>3.50	22259
2	12.70 (1/2")	775.0	782.0	17000	166.77	19500	191.30	198	>3.50	22262
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

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

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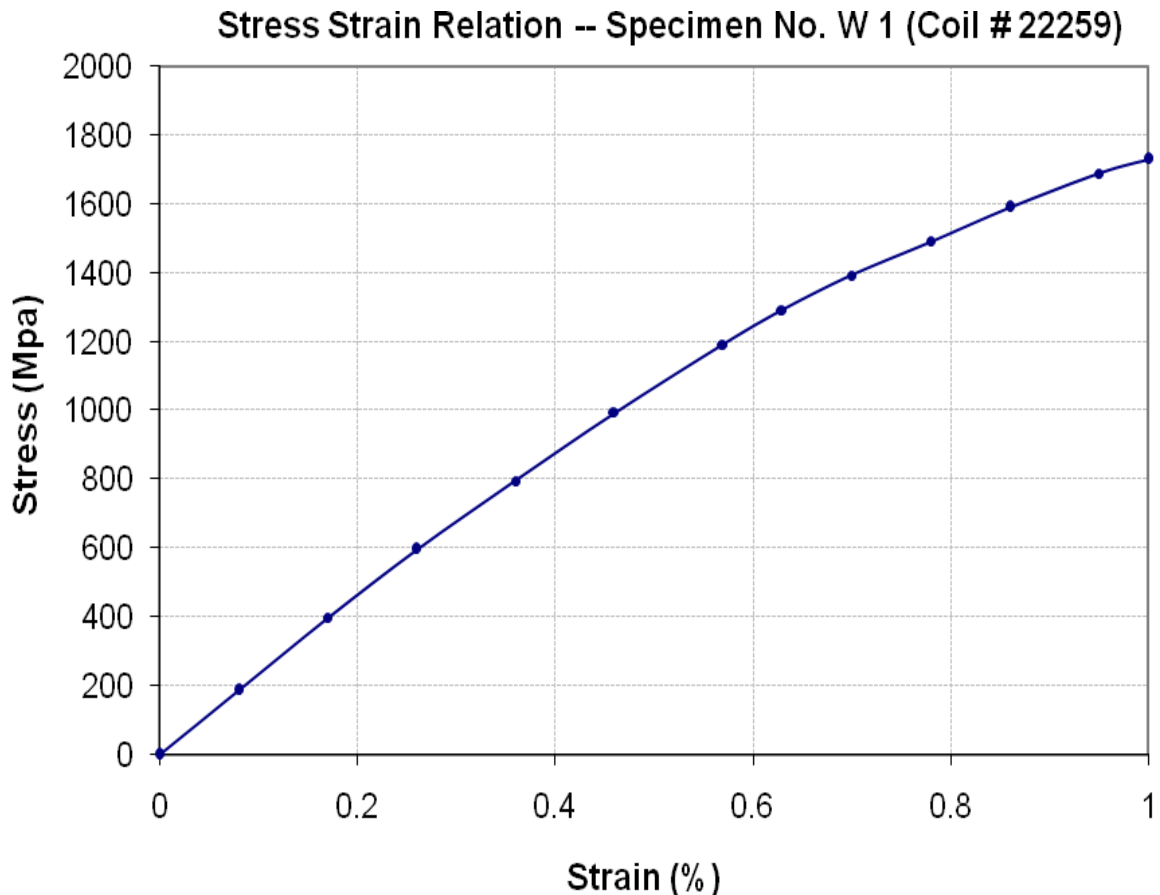
To,
Resident Engineer
NESPAK
Construction of Shatiial – Thor Nullah Bypass (Relocation of KKH) Including Link Road to
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Reference # CED/TFL **36328** (Dr. Qasim Khan)
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Dated: 12-04-2021

Dated: 07-04-2021

Graph (Page – 2/3)



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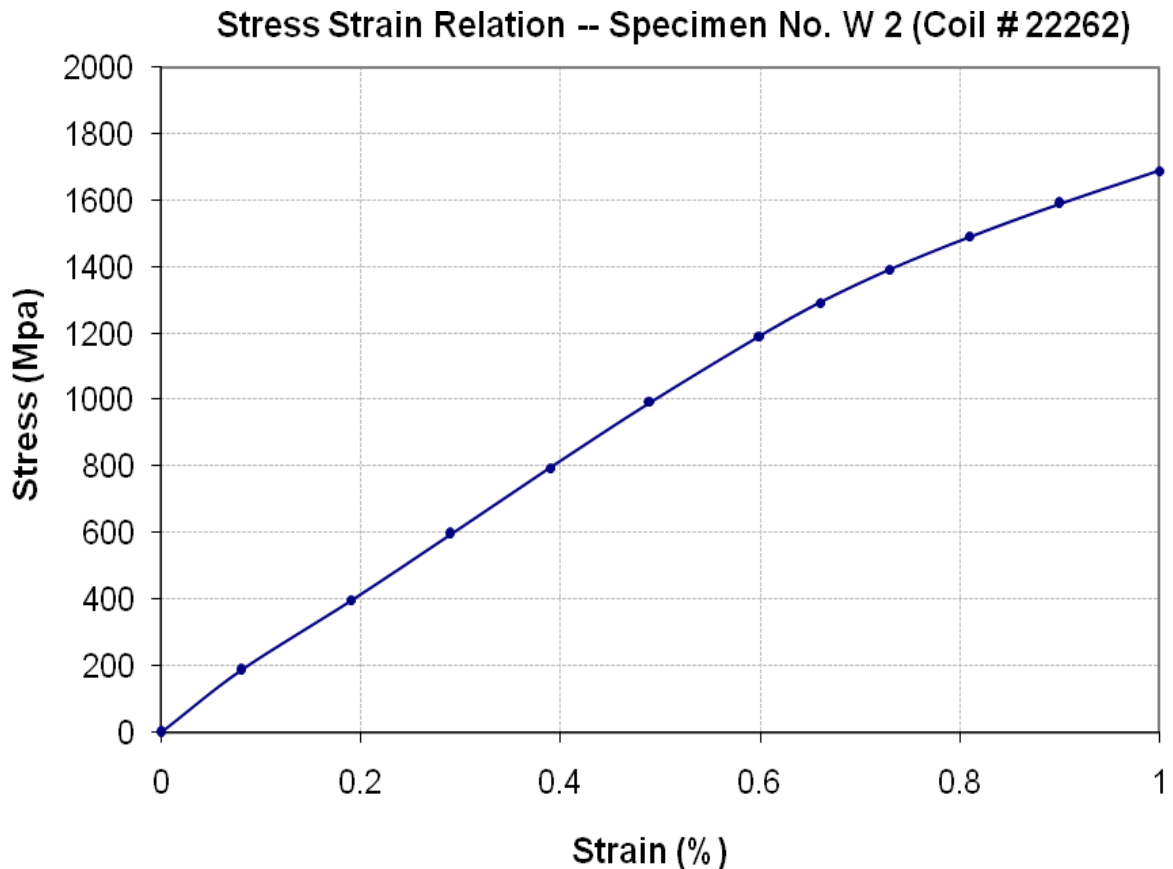
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Dated: 12-04-2021

Dated: 07-04-2021

Graph (Page – 3/3)



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
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To,
 Assistant Resident Engineer
 Engineering Consultancy Services Punjab (Pvt) Limited
 Construction of Flyover at Mandi Chowk, Multan

Reference # CED/TFL **36329, 335 (Dr. Qasim Khan)**
 Reference of the request letter # ECSP/MDA/MCF/001

Dated: 12-04-2021
 Dated: 27-03-2021

Tension Test Report (Page -1/5)

Date of Test 13-04-2021
 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 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	0.407	10	9.91	0.12	0.120	4200	5500	77161	77430	101044	101400	0.90	11.3	
2	0.408	10	9.93	0.12	0.120	4000	5400	73487	73500	99207	99300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

10mm Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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To,
Assistant Resident Engineer
Engineering Consultancy Services Punjab (Pvt) Limited
Construction of Flyover at Mandi Chowk, Multan

Reference # CED/TFL **36329, 335** (Dr. Qasim Khan)
Reference of the request letter # ECSP/MDA/MCF/009

Dated: 12-04-2021
Dated: 09-04-2021

Tension Test Report (Page – 2/5)

Date of Test 07-01-2021
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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1112.0	23400	229.55	26400	258.98	199	>3.50	xx
2	15.24 (0.6")	1102.0	1119.0	24500	240.35	27500	269.78	198	>3.50	xx
3	15.24 (0.6")	1102.0	1115.0	23700	232.50	27500	269.78	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 Laboratories
UET Lahore, Pakistan.

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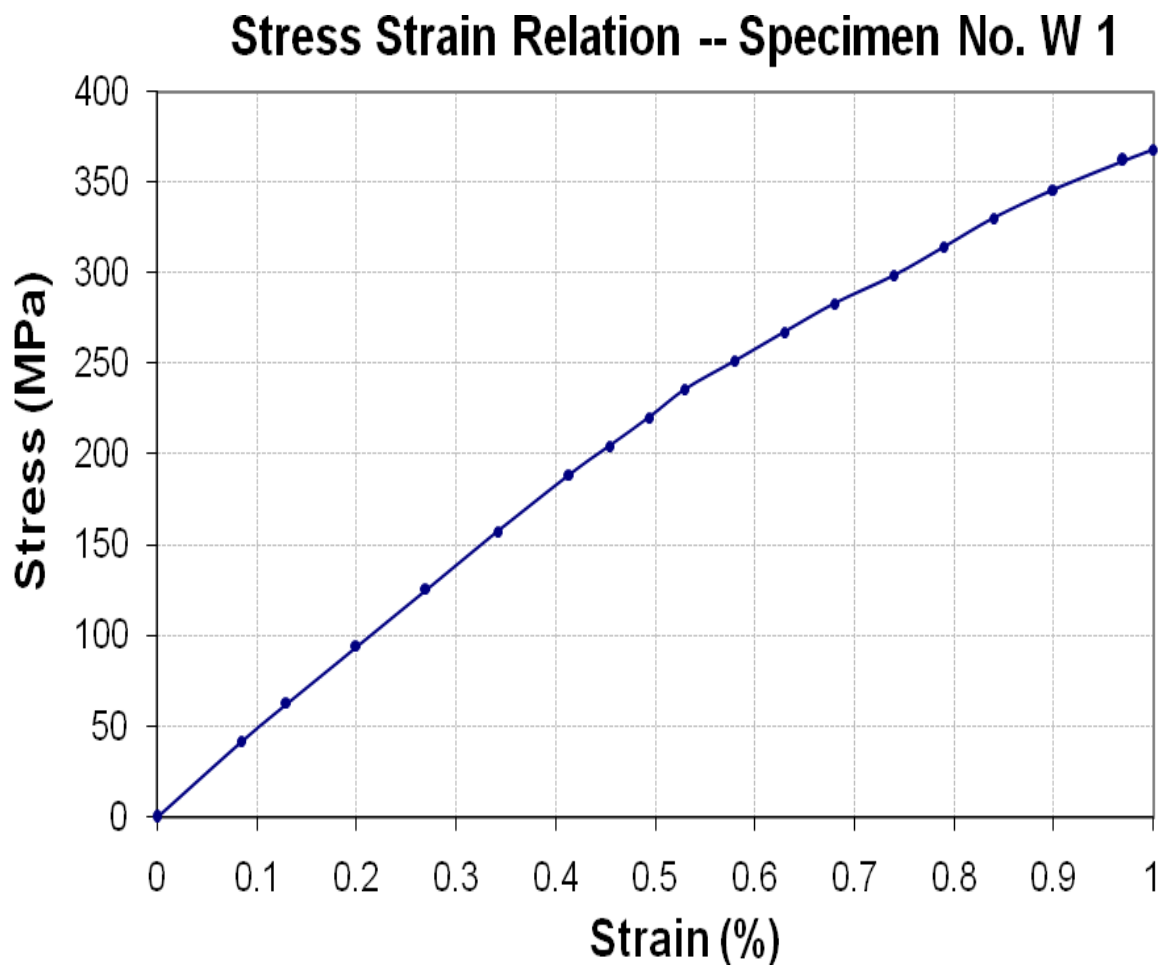
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To,
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Engineering Consultancy Services Punjab (Pvt) Limited
Construction of Flyover at Mandi Chowk, Multan

Reference # CED/TFL **36329, 335** (Dr. Qasim Khan)
Reference of the request letter # ECSP/MDA/MCF/009

Dated: 12-04-2021
Dated: 09-04-2021

Graph (Page – 3/5)



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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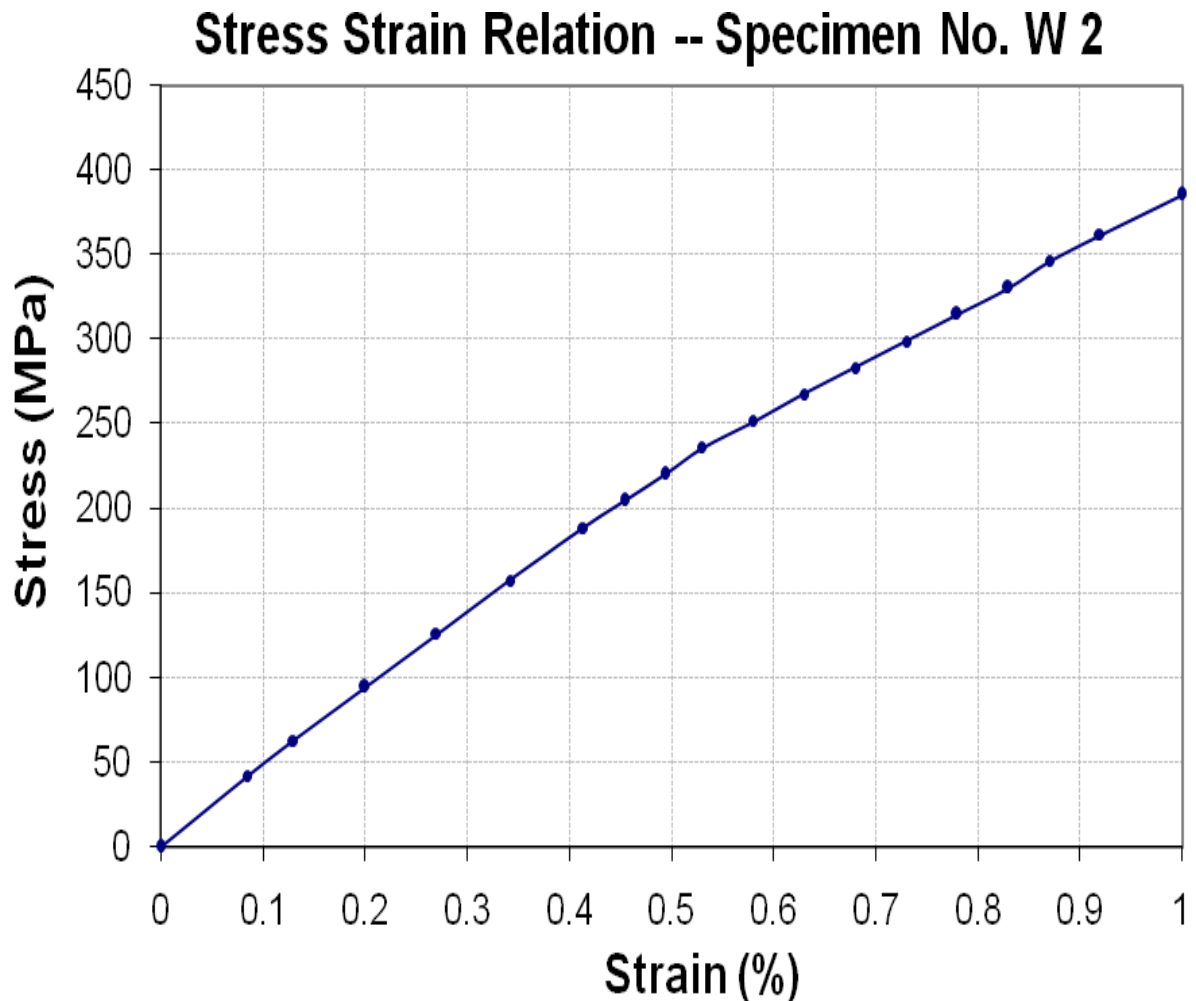
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Assistant Resident Engineer
Engineering Consultancy Services Punjab (Pvt) Limited
Construction of Flyover at Mandi Chowk, Multan

Reference # CED/TFL **36329, 335** (Dr. Qasim Khan)
Reference of the request letter # ECSP/MDA/MCF/009

Dated: 12-04-2021
Dated: 09-04-2021

Graph (Page – 4/5)



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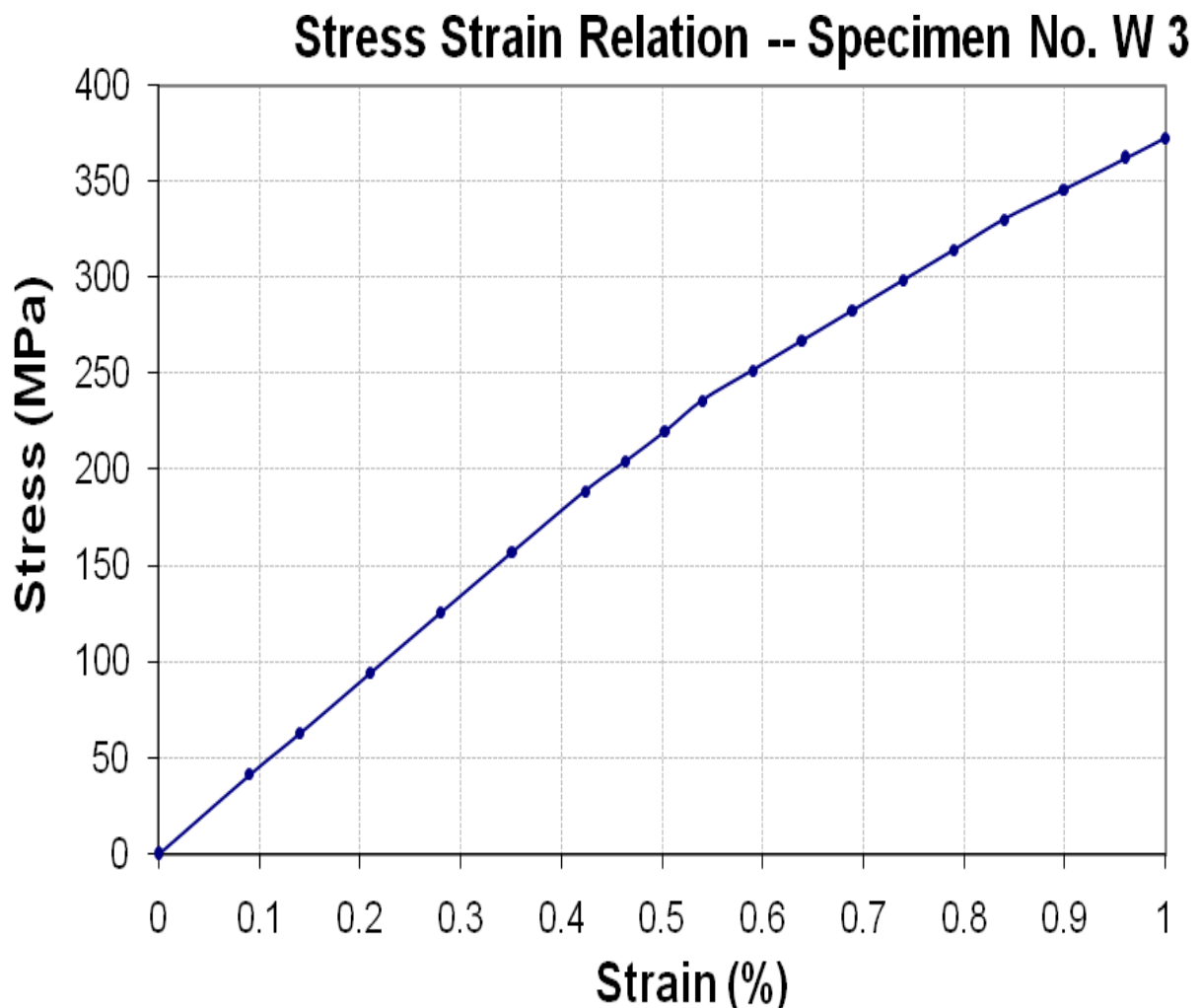
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Graph (Page – 5/5)



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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager Civil Works
 Nishat Mills Limited
 Construction of Nishat Appael Garment Unit 2 Lahore

Reference # CED/TFL **36330** (Dr. Qasim Khan)
 Reference of the request letter # NA/GU/ST/003

Dated: 12-04-2021
 Dated: 03-04-2021

Tension Test Report (Page -1/1)

Date of Test 13-04-2021
 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 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	0.406	10	9.91	0.12	0.119	3400	4700	62464	62740	86347	86800	1.60	20.0	
2	0.412	10	9.97	0.12	0.121	3500	4800	64301	63700	88184	87400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

10mm 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
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Technical Manager
 Shenjiao Engineering Company
 Lahore

Reference # CED/TFL **36231** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 12-04-2021
 Dated: 12-04-2021

Tension Test Report (Page -1/1)

Date of Test 13-04-2021
 Gauge length 2 inches
 Description Plain Steel Bar Tensile Test

Sr. No.	Weight	Diameter/ Size (mm)		Area (mm ²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	7.394	35	34.63	---	942.0	52200	88800	544	925	0.50	25.0	(AISI1045 UNSG10450)
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
M/S M. Siddique Sons Building Contractor
Lahore

Reference # CED/TFL **36332** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 12-04-2021
Dated: 12-04-2021

Tension Test Report (Page -1/1)

Date of Test 13-04-2021
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	0.381	3/8	0.378	0.11	0.112	4200	5200	84200	82670	104200	102400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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