



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

To,
 Sub Divisional Officer
 Highway Sub Division
 Jampur
 (Construction of Pile Foundation Bridge over Link No. III Canal on Jampur Dajal Road Length = 110 Rft in District Rajanpur)
 Reference # CED/TFL **33006** (Dr. Ali Ahmed) Dated: 05-04-2019
 Reference of the request letter # 200/J Dated: 22-03-2019

Tension Test Report (Page – 1/4)

Date of Test 10-04-2019
 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	786.0	17100	167.75	19600	192.28	199	>3.50	xx
2	12.70 (1/2")	775.0	785.0	17800	174.62	19600	192.28	198	>3.50	xx
3	12.70 (1/2")	775.0	785.0	17200	168.73	19600	192.28	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
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Note:

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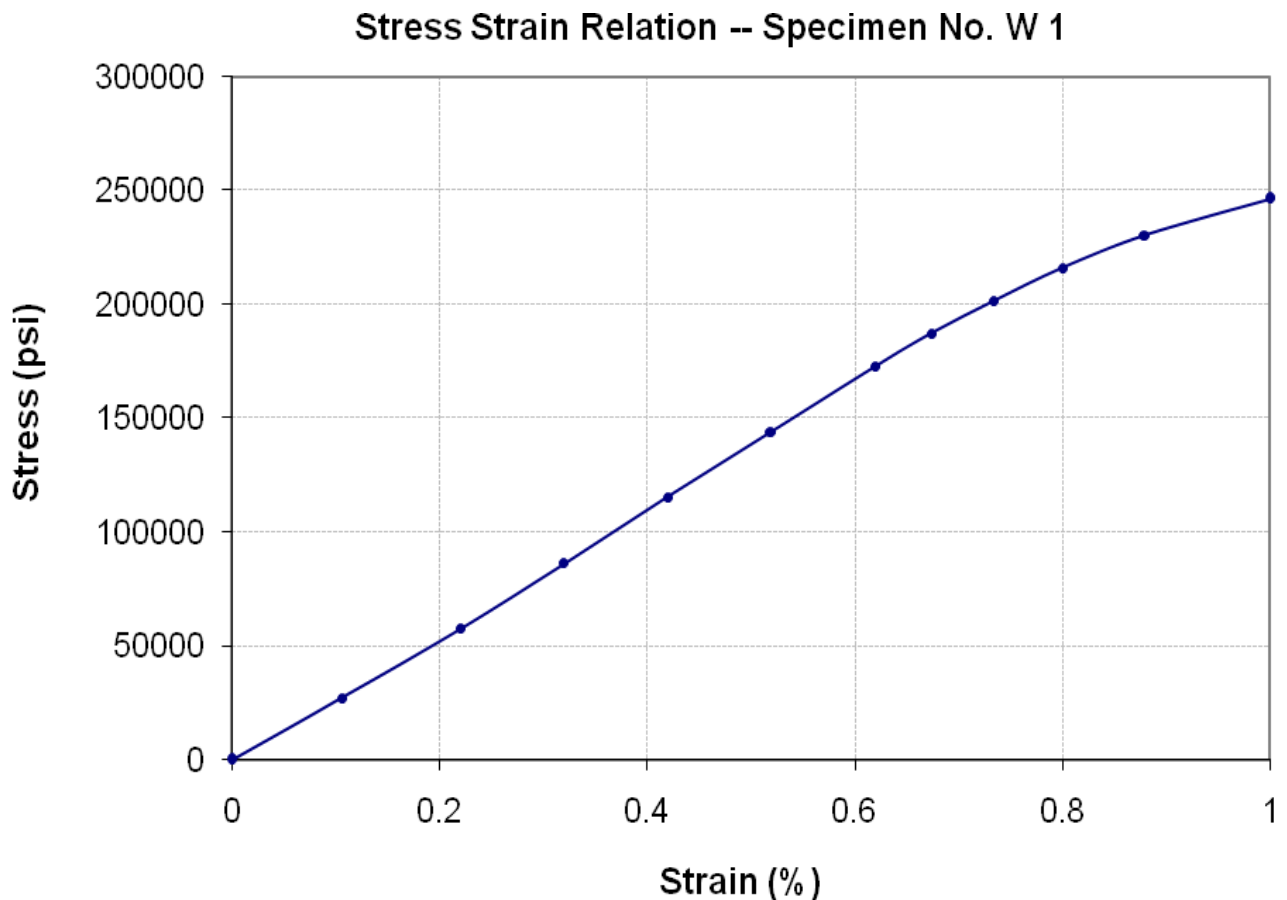
To,
Sub Divisional Officer
Highway Sub Division
Jampur
(Construction of Pile Foundation Bridge over Link No. III Canal on Jampur Dajal Road Length = 110 Rft in District Rajanpur)

Reference # CED/TFL **33006** (Dr. Ali Ahmed)
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Dated: 05-04-2019

Dated: 22-03-2019

Graph (Page – 2/4)



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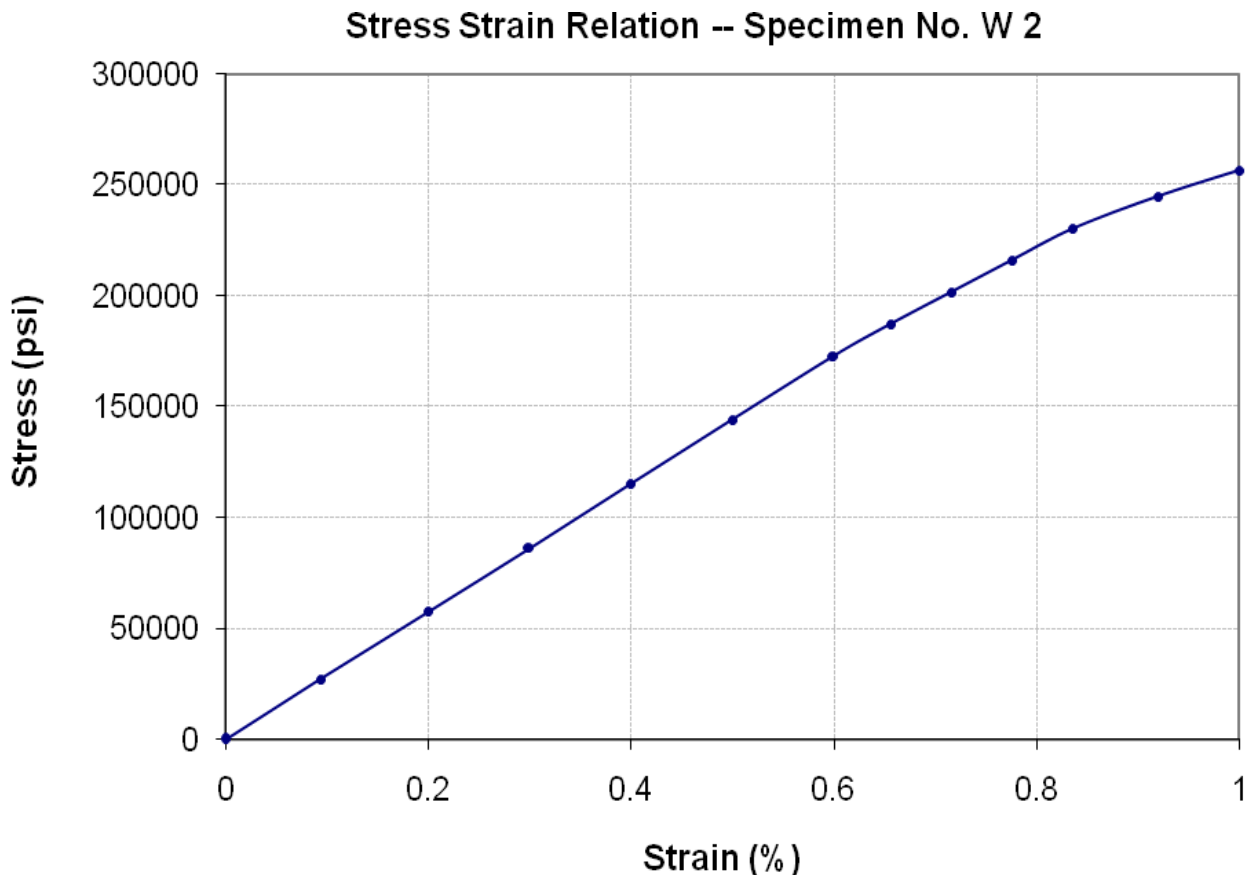
To,
Sub Divisional Officer
Highway Sub Division
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(Construction of Pile Foundation Bridge over Link No. III Canal on Jampur Dajal Road Length = 110 Rft in District Rajanpur)

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Dated: 05-04-2019

Dated: 22-03-2019

Graph (Page – 3/4)



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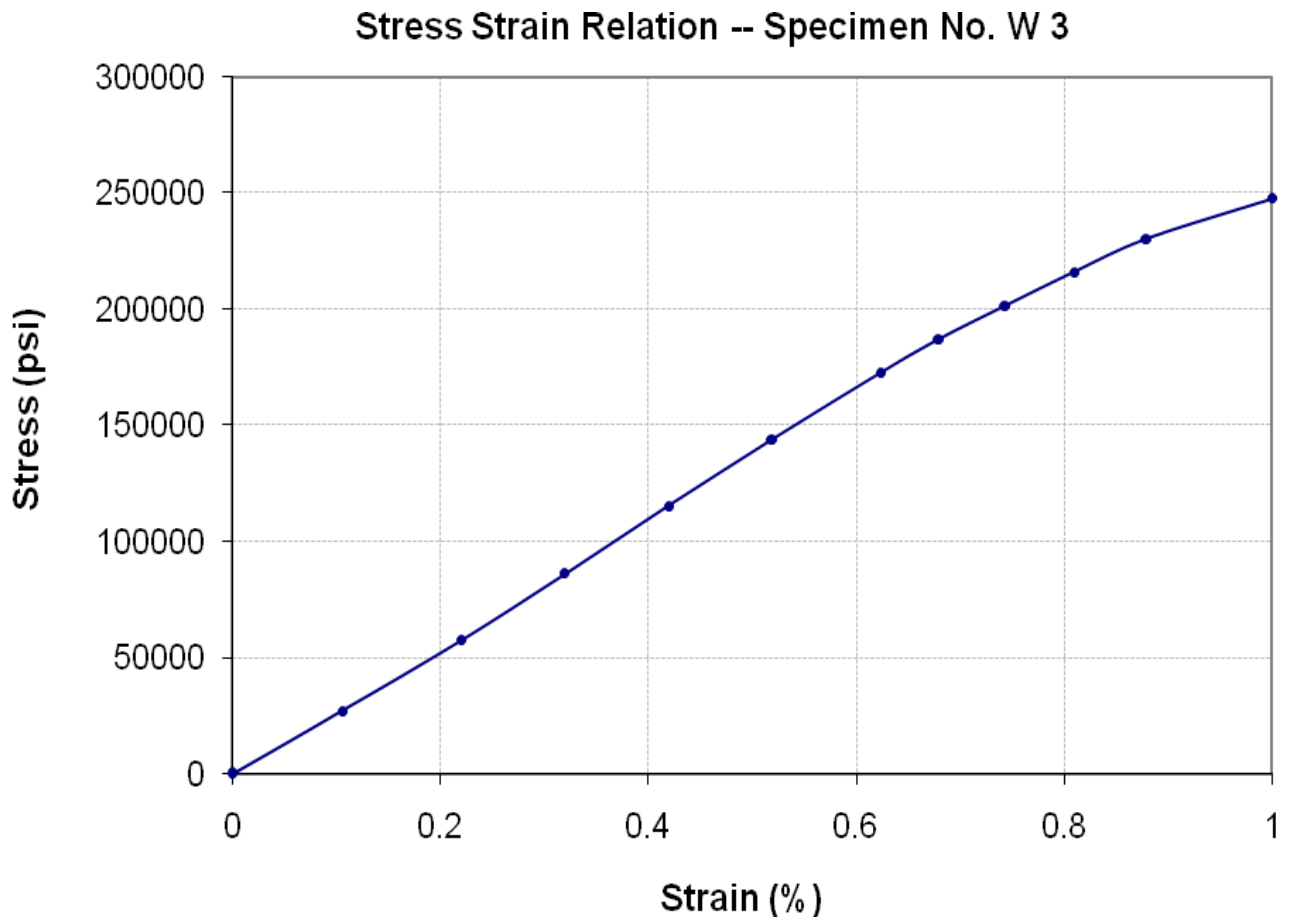
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Reference # CED/TFL **33006** (Dr. Ali Ahmed)
Reference of the request letter # 200/J

Dated: 05-04-2019

Dated: 22-03-2019

Graph (Page – 4/4)



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To,
 Project Manager
 Unicon Consulting Services
 Construction of MCB, Karrianwala Branch, District Gujrat

Reference # CED/TFL **33025** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 09-04-2019
 Dated: 29-03-2019

Tension Test Report (Page -1/1)

Date of Test 10-04-2019
 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	0.372	3	0.373	0.11	0.109	3110	4100	62400	62640	82200	82600	1.60	20.0	
2	0.366	3	0.370	0.11	0.108	3400	4150	68200	69660	83200	85100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Extnl Elec Works U/G of IVY Green Sector-Z, DHA Ph-VIII)(M/s NLC)

Reference # CED/TFL **33026** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/520/09

Dated: 09-04-2019
Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 10-04-2019
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	0.364	3	0.369	0.11	0.107	3460	4680	69400	71320	93800	96500	0.90	11.3	FF Steel
2	0.374	3	0.374	0.11	0.110	3670	4790	73600	73490	96000	96000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Karanat Ali (FWO)
Shafait (Zeeruk)

Reference # CED/TFL **33027** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 09-04-2019

Dated: 09-04-2019

Tension Test Report (Page – 1/1)

Date of Test 10-04-2019

Gauge length -----

Description Tension Wire & Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.15	7.55	Tension Wire
2	3.15	7.25	Tension Wire
3	3.00	3.45	Fence Wire
4	3.00	3.75	Fence Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Only Four Samples for Test			

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STRUCTURAL ENGINEERING DIVISION
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To,
 Resident Engineer
 AZ Engineering Associates, Sialkot
 Construction of Fly Over at Shahabpur Chowk Defence Road Sialkot
 (Kamran Steel)

Reference # CED/TFL **33028** (Dr. Ali Ahmed)
 Reference of the request letter # RE/SKT-63

Dated: 09-04-2019
 Dated: 06-04-2019

Tension Test Report (Page -1/1)

Date of Test 10-04-2019
 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	0.373	3	0.373	0.11	0.110	3140	4430	63000	63200	88800	89200	1.50	18.8	
2	0.372	3	0.373	0.11	0.109	3160	4450	63400	63740	89200	89800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works, Sector-Z, DHA Ph-VII)(M/s JR Private)

Reference # CED/TFL **33029** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/519/05

Dated: 09-04-2019
Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 10-04-2019
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	0.374	3	0.374	0.11	0.110	3380	4600	67800	67850	92200	92400	1.20	15.0	Kamran Steel
2	0.375	3	0.375	0.11	0.110	3400	4660	68200	68000	93400	93200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works Sector-M (Extension), DHA PH-V)(M/s AAJ Engrs)

Reference # CED/TFL **33030** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/523/07

Dated: 09-04-2019
Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 10-04-2019
Description Deformed Steel Bar Tensile Test as per ASTM-A496

Sr. No.	Weight (Kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal (in)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.262	1/4	6.52	32.26	33.43	1360	1780	414	399	541	522	
2	0.252	1/4	6.39	32.26	32.04	1450	2040	441	444	620	625	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

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To,
M/S Decent Builders
Lahore Cantt

Reference # CED/TFL **33032** (Dr. Ali Ahmed)
Reference of the request letter # 196-s/114/Lhr

Dated: 09-04-2019
Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 10-04-2019
Gauge length 2 inches
Description Plain Steel Bar Tensile Test

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	0.122	5.5	5.42	-----	0.036	650	920	-----	40080	-----	56800	0.50	22.5	
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Note: only one sample for tensile test														
Bend Test														

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