



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

Ref: CED/TFL/07/5415

Dated: 29-07-2024

Dated of Test: 05-08-2024

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Ali Rehman Punjab Rcc Pipe Factory.)

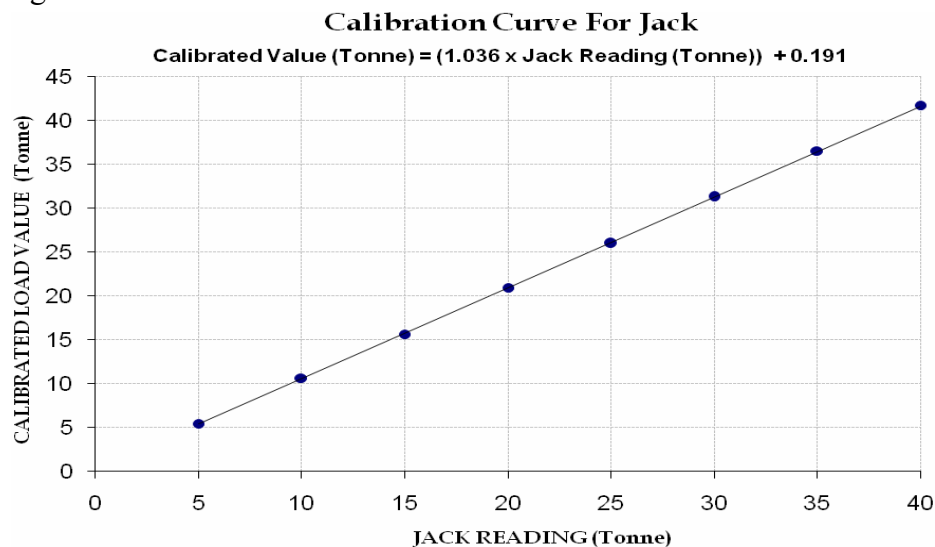
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/07/5415)

Reference to your Letter No. QCD/1146-47, Dated: 22/07/2024 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 50 (Tonne)
Calibrated Range : Zero - 40 (Tonne)

Hydraulic Jack Reading (Tonne)		5	10	15	20	25	30	35	40
Calibrated Load	(kg)	5450	10600	15650	20900	25950	31250	36500	41700
	(Tonne)	5.45	10.60	15.65	20.90	25.95	31.25	36.50	41.70

1000 kg = 1 Tonne



I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,

QA/QC Manager
Power Construction Corporation of China Ltd
Tarbela 5th Extension Hydropower Project Management Department
(Wire Manufacturing Industry Limited.)

Reference # CED/TFL **5439** (Dr. M Kashif)

Dated: 31-07-2024

Reference of the request letter # PCCCL/T5-GC/QC/2024-0017

Dated: 30-07-2024

Tension Test Report (Page – 1/4)

Date of Test 05-08-2024

Gauge length 600 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")	1100.0	1112	24500	240.35	27400	268.79	199	>3.50	01
2	15.24 (0.6")	1100.0	1116	25300	248.19	27500	269.78	198	>3.50	02
3	15.24 (0.6")	1100.0	1117	24600	241.33	27500	269.78	199	>3.50	03
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

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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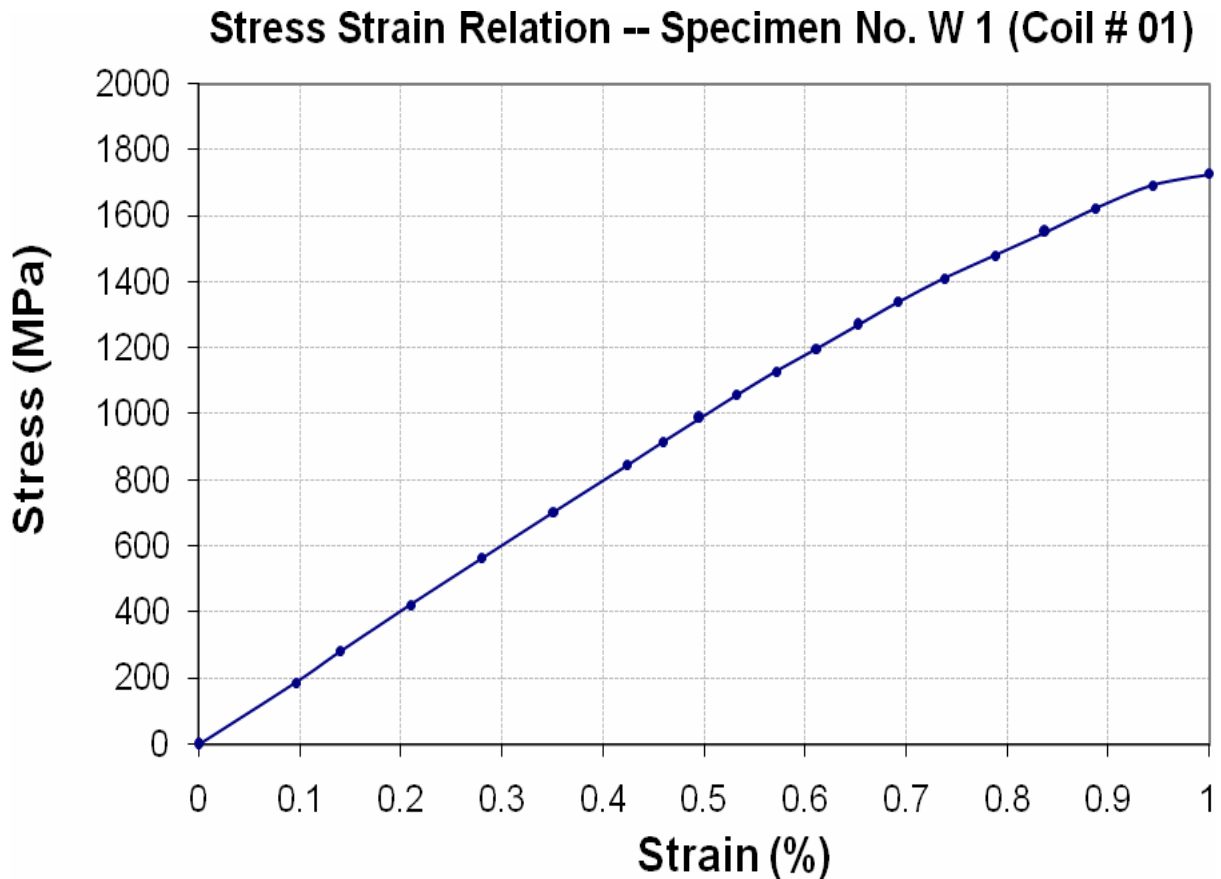
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Graph (Page – 2/4)



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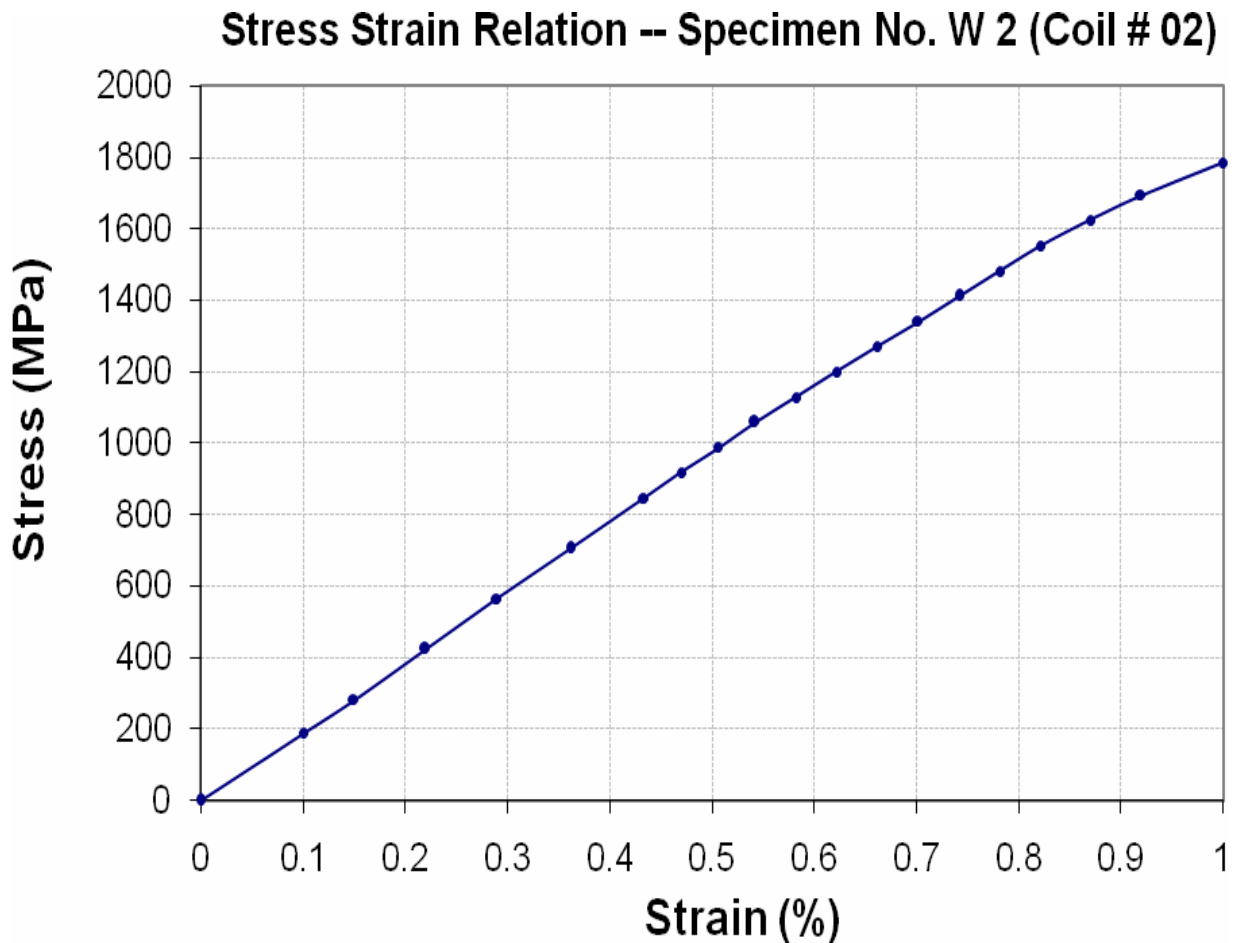
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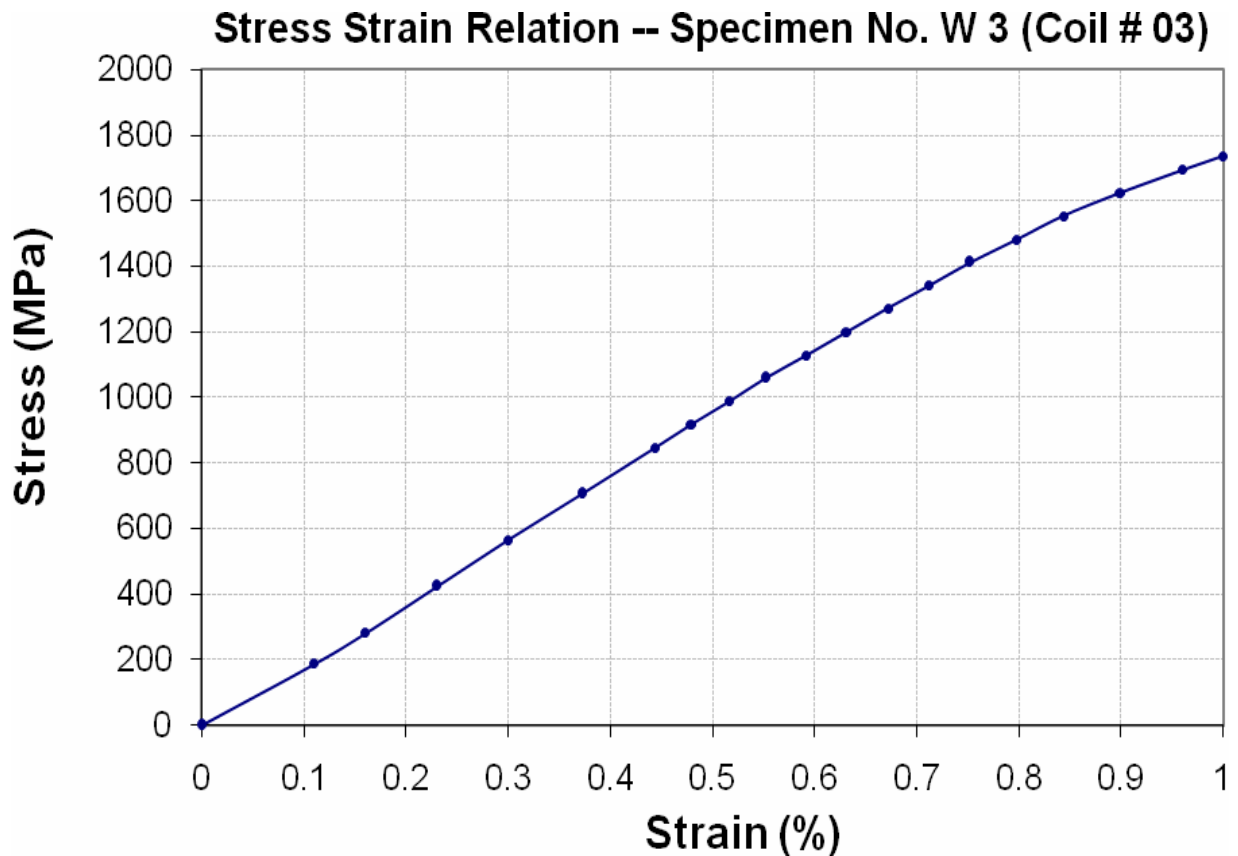
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Graph (Page – 4/4)



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STRUCTURAL ENGINEERING DIVISION
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To,

Resident Engineer
AZ Engineering Associates
Gujrat & Kharian Residency.
“Rehabilitation of Road from Jalalpur Jattan Shahbazpur Road to Head Marala Road via
Chopala I/C Bridge Length = 17.20 kms District Gujrat.” (WMI)

Reference # CED/TFL **5443** (Dr. M Kashif)
Reference of the request letter # RE AZEA/GT-1075

Dated: 01-08-2024
Dated: 24-07-2024

Tension Test Report (Page -1/4)

Date of Test 05-08-2024
Gauge length 600 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	780.0	17700	173.64	19500	191.30	198	>3.50	xx
2	12.70 (1/2")	780.0	782.0	17900	175.60	19300	189.33	199	>3.50	xx
3	12.70 (1/2")	780.0	781.0	17800	174.62	19500	191.30	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

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UET Lahore, Pakistan.

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“Rehabilitation of Road from Jalalpur Jattan Shahbazpur Road to Head Marala Road via
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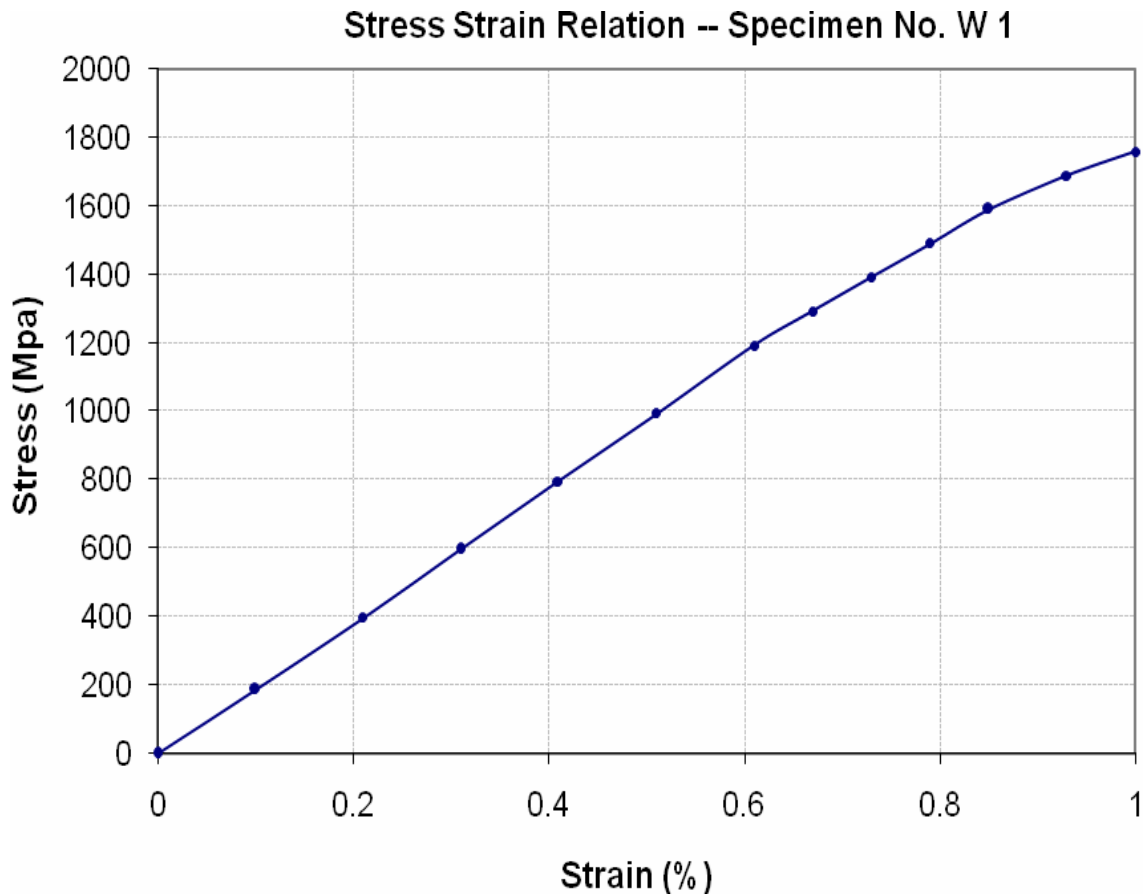
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Reference of the request letter # RE AZEA/GT-1075

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Graph (Page – 2/4)



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UET Lahore, Pakistan.

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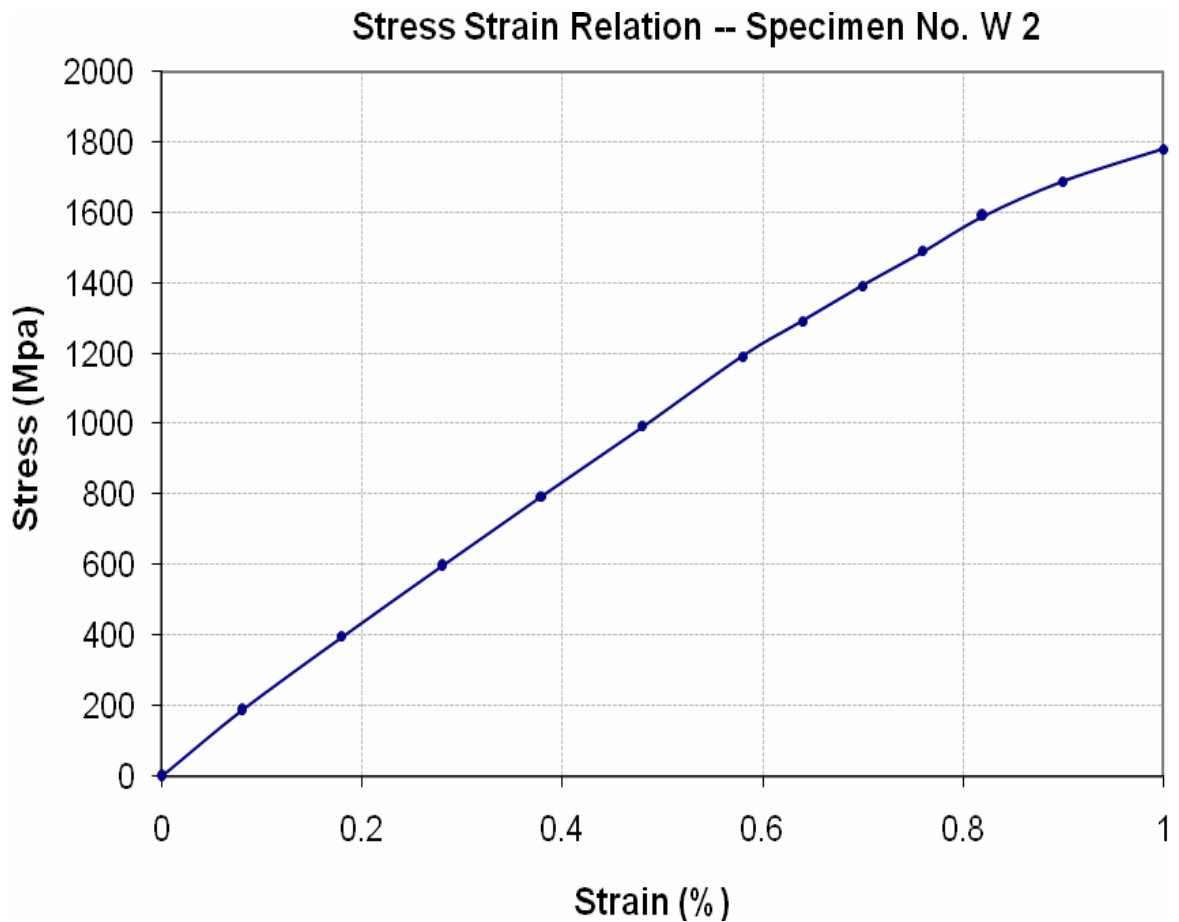
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Graph (Page – 3/4)



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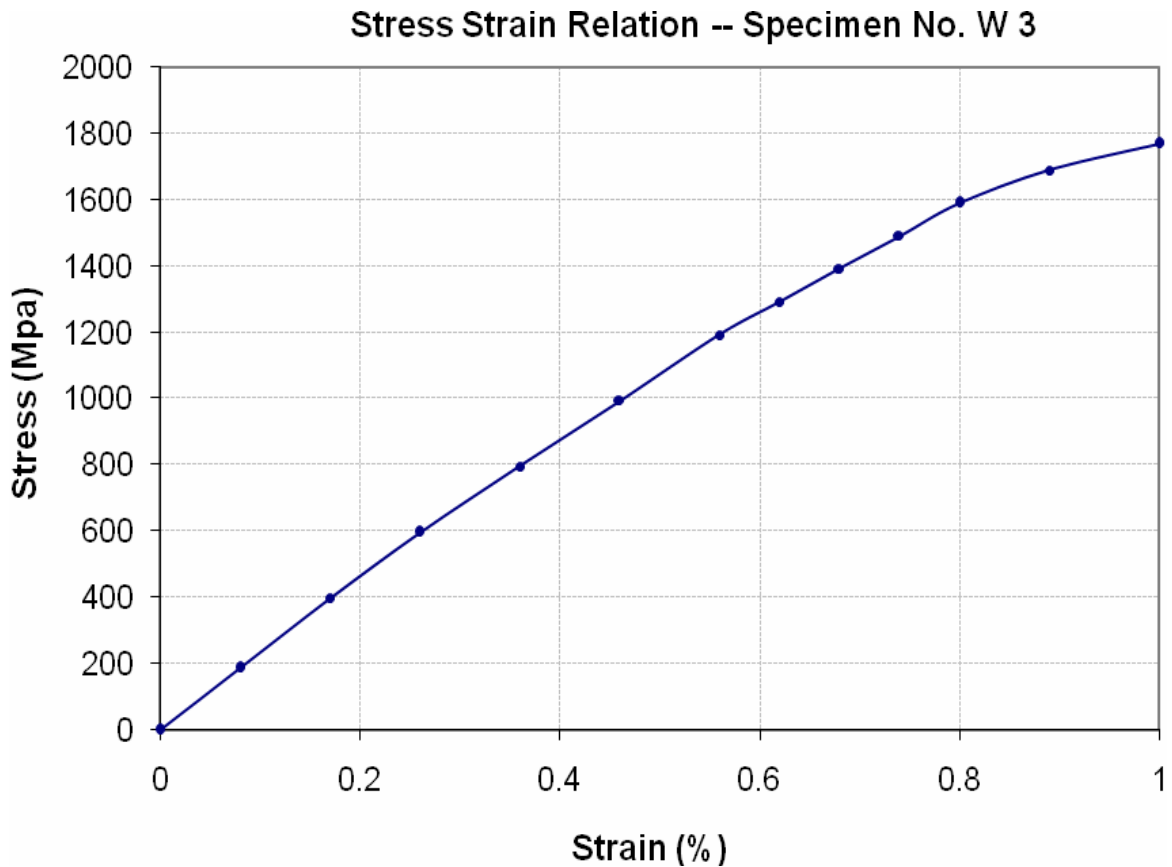
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Graph (Page – 4/4)



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To,

Resident Engineer
AZ Engineering Associates
Gujrat & Kharian Residency.
“Construction of Bridge & Approches Roads over Rainy Nullahs near Village Ghayyian
& Bhojpur on Chohan Barilla Road in District Gujrat.” (WMI)

Reference # CED/TFL **5444** (Dr. M Kashif)
Reference of the request letter # RE AZEA/GT-1071

Dated: 01-08-2024
Dated: 24-07-2024

Tension Test Report (Page -1/4)

Date of Test 05-08-2024
Gauge length 600 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	780.0	17700	173.64	19400	190.31	198	>3.50	xx
2	12.70 (1/2")	780.0	782.0	17800	174.62	19400	190.31	199	>3.50	xx
3	12.70 (1/2")	780.0	781.0	17500	171.68	19600	192.28	198	>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

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To,

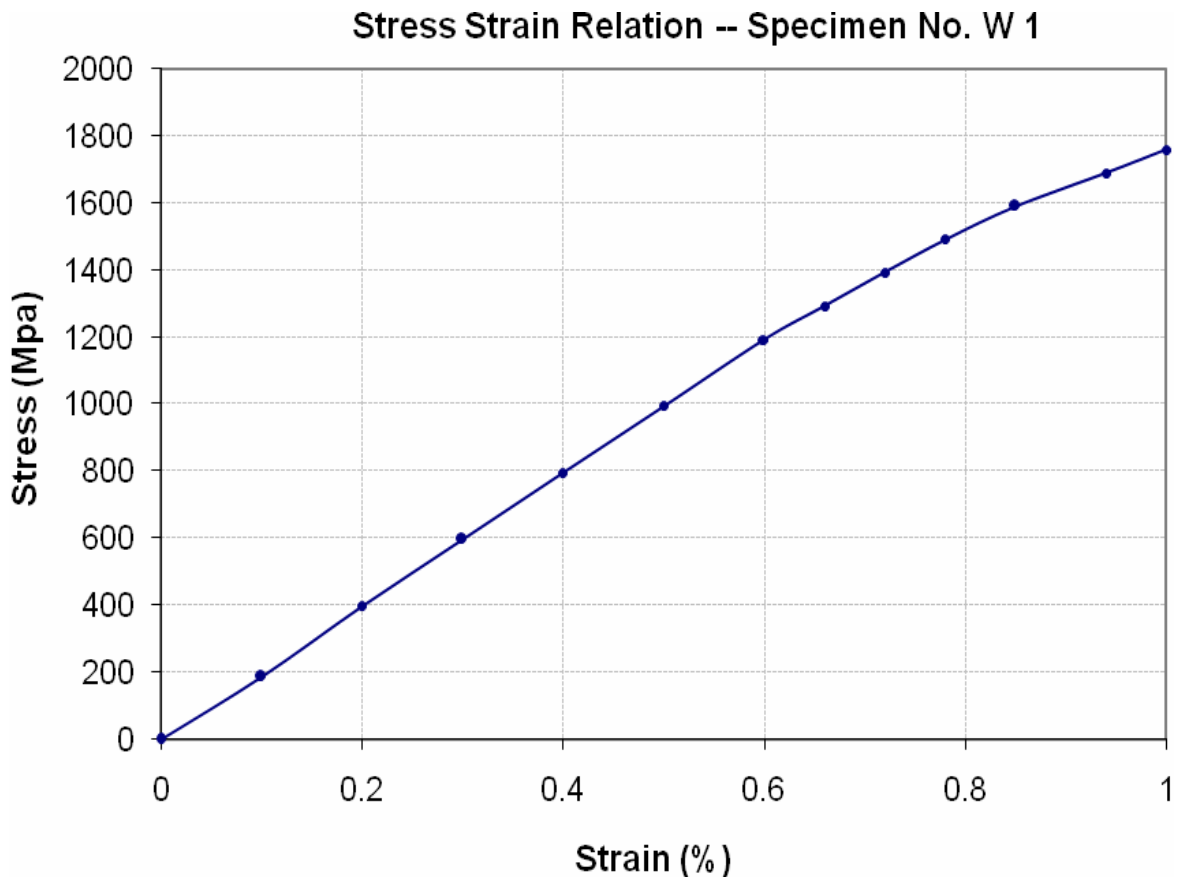
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Dated: 01-08-2024

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Graph (Page – 2/4)



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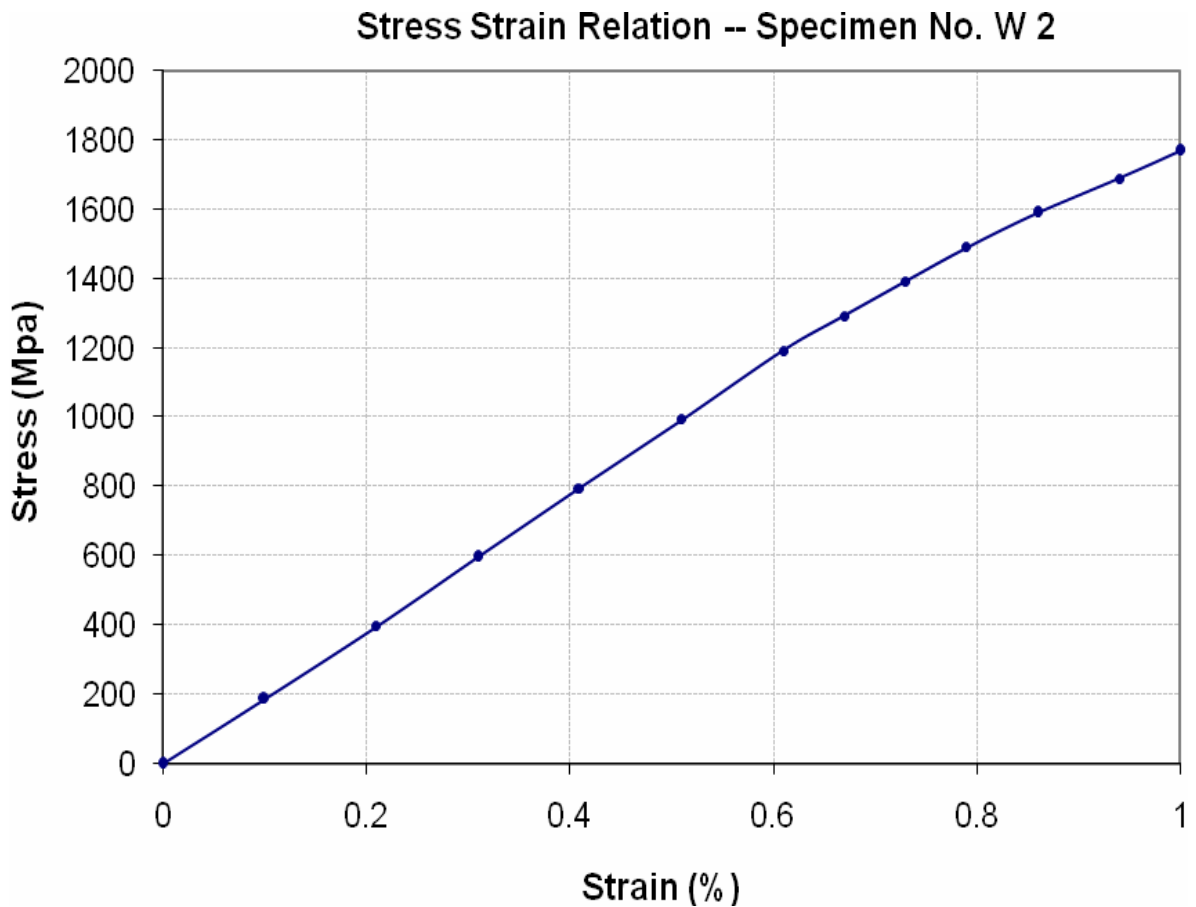
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Dated: 01-08-2024

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Graph (Page – 3/4)



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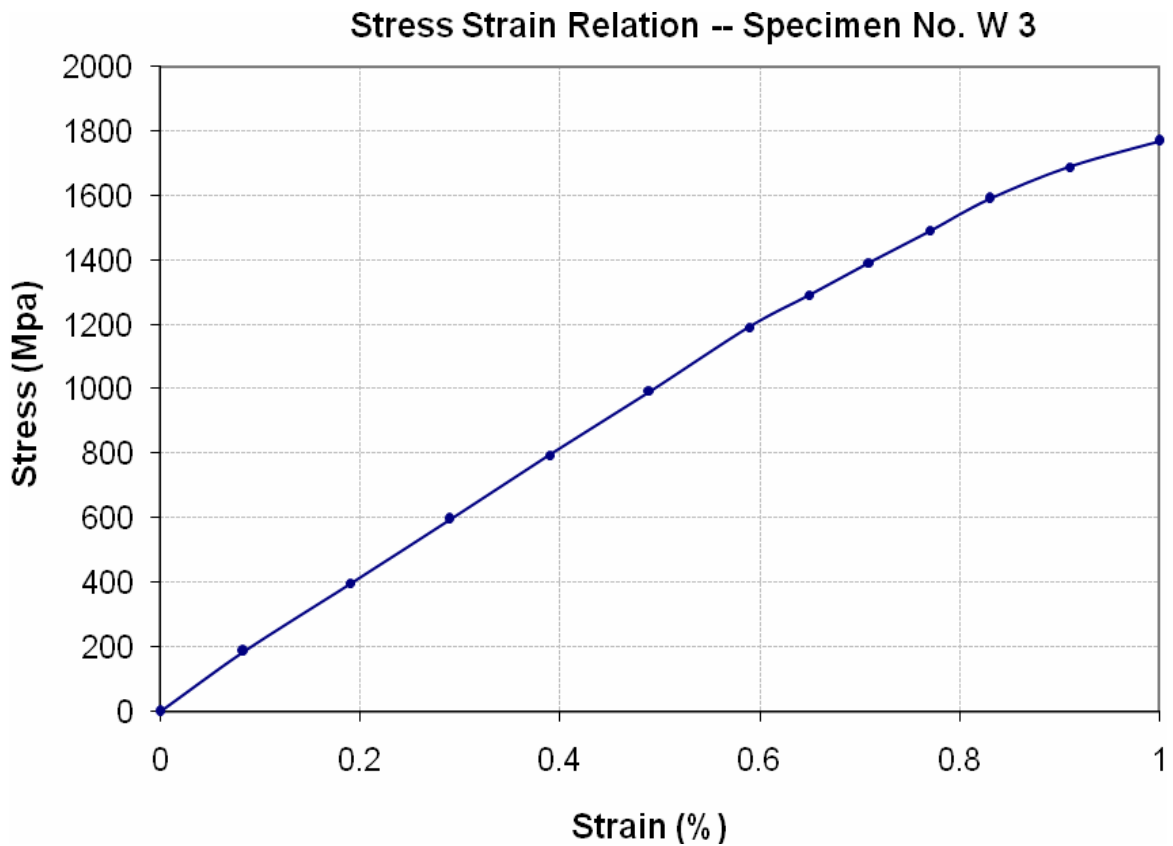
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Graph (Page – 4/4)



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To,

Project Manager
China Civil Engineering Construction Corporation
Dasu KKH-01
(Wire and Cable Products.)

Reference # CED/TFL **5446** (Dr. M Kashif)

Dated: 01-08-2024

Reference of the request letter # CCECC/PAK/DASUFIELD/KKH-01/24-0 Dated: 31-07-2024

Tension Test Report (Page – 1/5)

Date of Test 05-08-2024

Gauge length 600 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")	1100.0	1174.0	25300	248.19	28500	279.59	198	>3.50	A-24
2	15.24 (0.6")	1100.0	1172.0	24100	236.42	28500	279.59	199	>3.50	B-02
3	15.24 (0.6")	1100.0	1173.0	25000	245.25	28300	277.62	199	>3.50	C-12
3	15.24 (0.6")	1100.0	1176.0	25400	249.17	28800	282.53	198	>3.50	D-18
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only four 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
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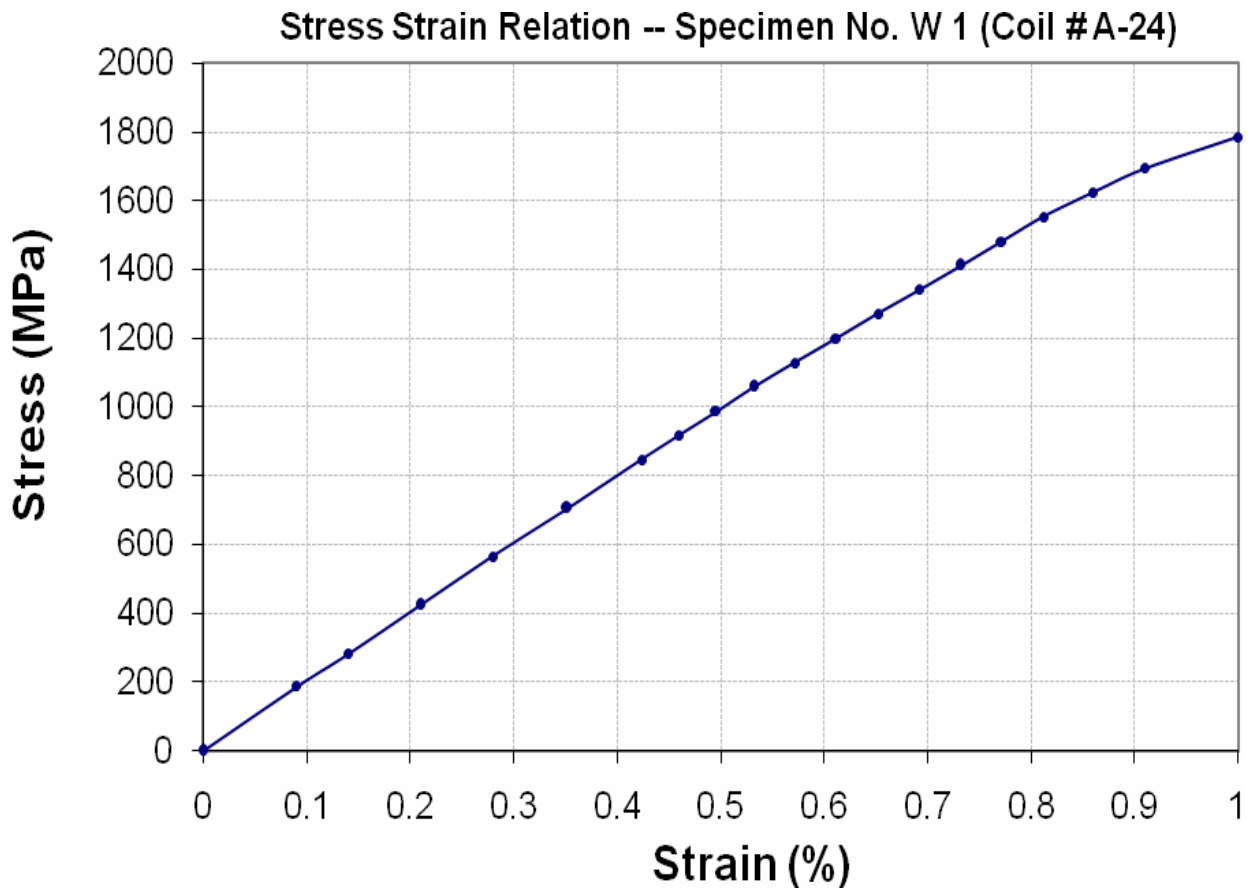
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Graph (Page – 2/5)



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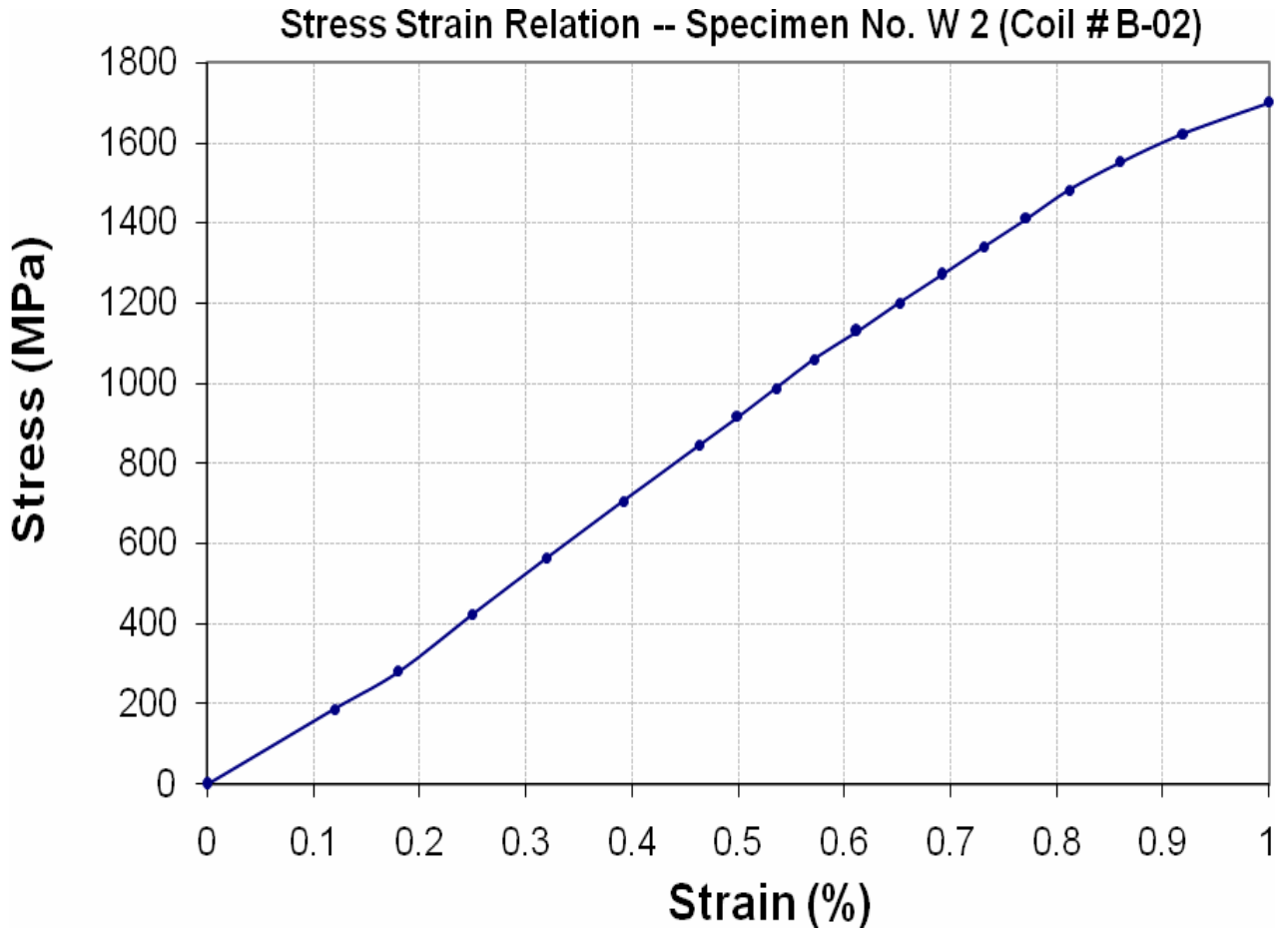
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Graph (Page – 3/5)



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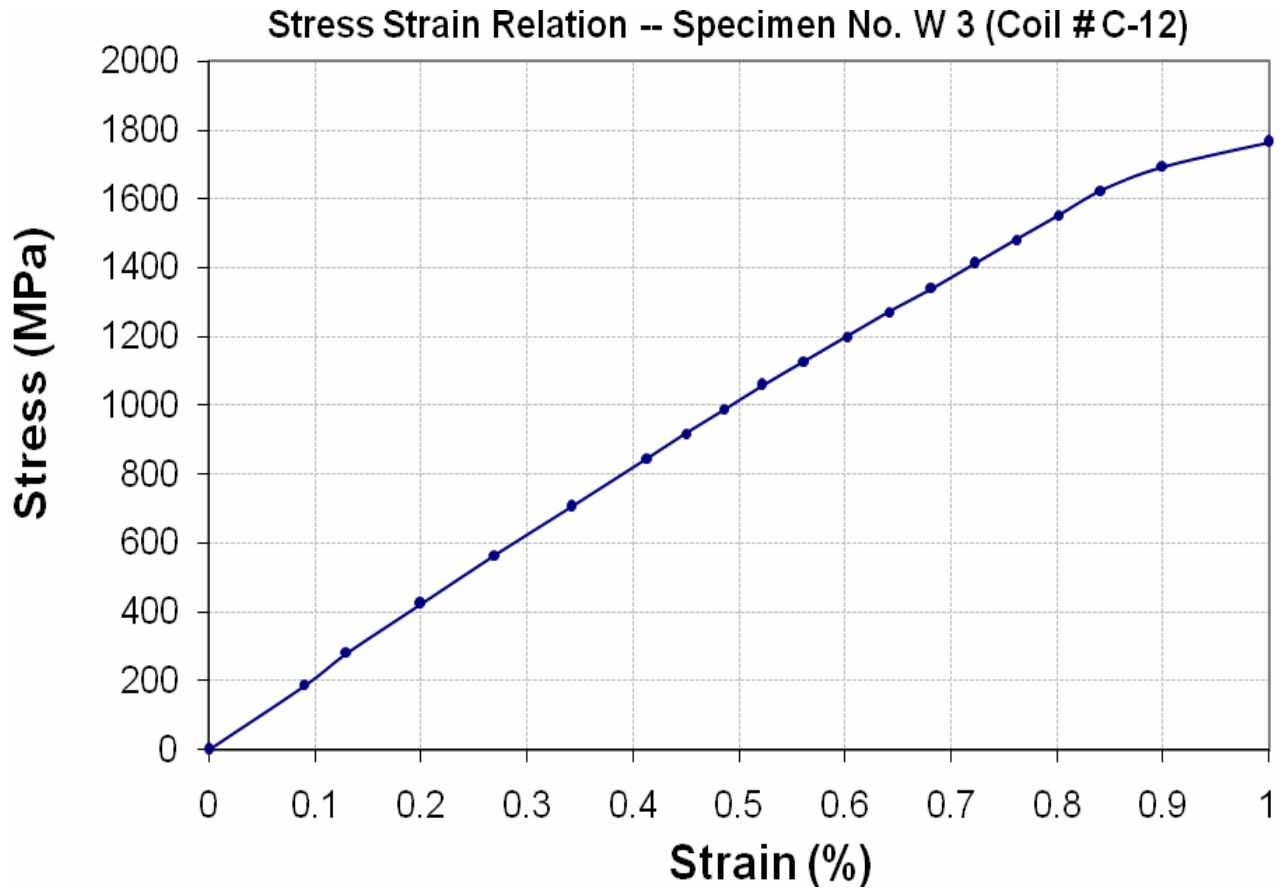
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Graph (Page – 4/5)



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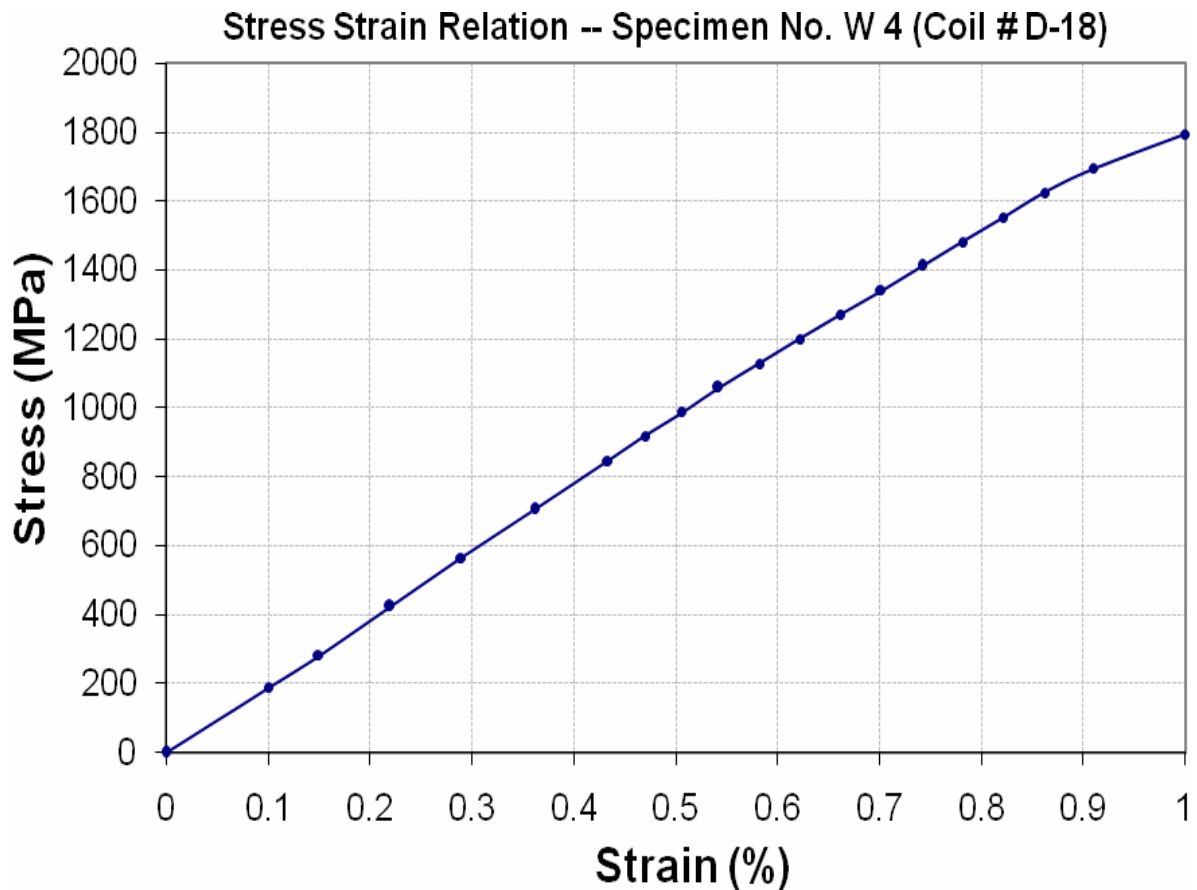
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Graph (Page – 5/5)



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To,

M/S Meezan Developers
Lahore
(Construction of Jamia-Tur-Rasheed Lahore Campus.)

Reference # CED/TFL **5447** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 02-08-2024
Dated: 02-08-2024

Tension Test Report (Page # 1/1)

Date of Test 05-08-2024
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 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	0.370	3	0.372	0.11	0.109	3720	4660	74600	75430	93400	94500	1.10	13.8	
2	0.370	3	0.372	0.11	0.109	3770	4710	75600	76450	94400	95600	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.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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 Canal 44
Luxury Apartments
44-Ahmed Block, New Garden Town, Lahore.

Reference # CED/TFL **5448** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 02-08-2024
Dated: 02-08-2024

Tension Test Report (Page # 1/1)

Date of Test 05-08-2024
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 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	3820	5200	76600	70240	104200	95700	1.20	15.0	
2	0.410	3	0.392	0.11	0.121	3840	5250	77000	70220	105200	96000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
Project Manager
AR Enterprise
Alfatah Emall Project.

Reference # CED/TFL **5449** (Dr. M Kashif)
Reference of the request letter # AEM/ST/UET/14/09

Dated: 02-08-2024
Dated: 01-08-2024

Tension Test Report (Page # 1/1)

Date of Test 05-08-2024
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 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	3590	4840	72000	73980	97000	99800	0.90	11.3	Kamran Steel	
2	0.364	3	0.369	0.11	0.107	3540	4840	71000	72840	97000	99600	1.20	15.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,

Unit Head PMO
ABL – UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **5453** (Dr. M Kashif)

Dated: 05-08-2024

Reference of the request letter # ABL-UML-AMC-QAQC-86

Dated: 05-08-2024

Tension Test Report (Page -1/1)

Date of Test 05-08-2024

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 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	0.361	3	0.367	0.11	0.106	3890	5270	78000	80890	105600	109600	0.80	10.0	FF Steel
2	0.353	3	0.364	0.11	0.104	3890	5270	78000	82590	105600	111900	1.20	15.0	
3	4.249	10	1.261	1.27	1.249	41400	55800	71900	73070	96900	98500	1.60	20.0	
4	4.223	10	1.257	1.27	1.241	40800	55200	70900	72440	95800	98100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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



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

To,
Dy Dir Dev
Defence Housing Authority, Gujranwala
"Plot 13 & 16 Comm Plaza."

Reference # CED/TFL **5462** (Dr. Nauman khurram) Dated: 05-08-2024
Reference of the request letter # 111/3/DD/Dev/Plot 13 & 16/Comm/26 Dated: 05-08-2024

Tension Test Report (Page -1/1)

Date of Test 05-08-2024
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 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	0.366	3	0.370	0.11	0.107	3180	4790	63800	65220	96000	98300	1.40	17.5	Nonsee Steel	
2	0.364	3	0.369	0.11	0.107	3260	4840	65400	67120	97000	99700	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															

Witness by Farooq-e-Azam (Lab. Tech. DHA Grw)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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