



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

To,

Resident Engineer
Diamer Basha Consultants Group (DBCg)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project

Reference # CED/TFL **4408** (Dr. M Kashif)

Dated: 26-12-2023

Reference of the request letter # DBCg/Lab/PF JV/2023/062

Dated: 18-12-2023

Tension Test Report (Page -1/3)

Date of Test 08-01-2024

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")	775.0	780.0	17700	173.64	19700	193.26	198	>3.50	WS-S4-2023-11-B
2	15.24 (0.6")	1102.0	1118.0	24100	236.42	27700	271.74	199	>3.50	WS-S4-2023-11-A
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

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Diamer Basha Consultants Group (DBCG)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR JV
Diamer Basha Dam Project

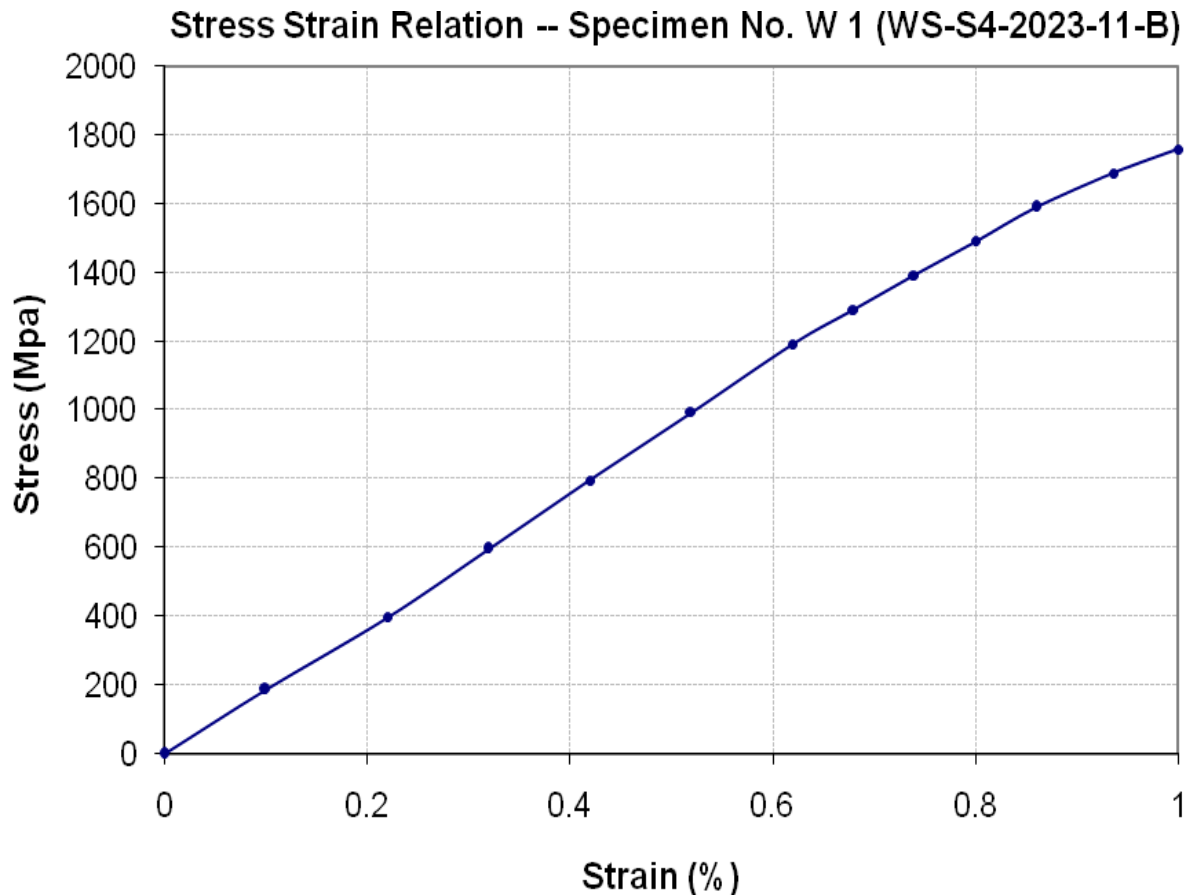
Reference # CED/TFL **4408** (Dr. M Kashif)

Dated: 26-12-2023

Reference of the request letter # DBCG/Lab/PF JV/2023/062

Dated: 18-12-2023

Graph (Page – 2/3)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Diamer Basha Dam Project

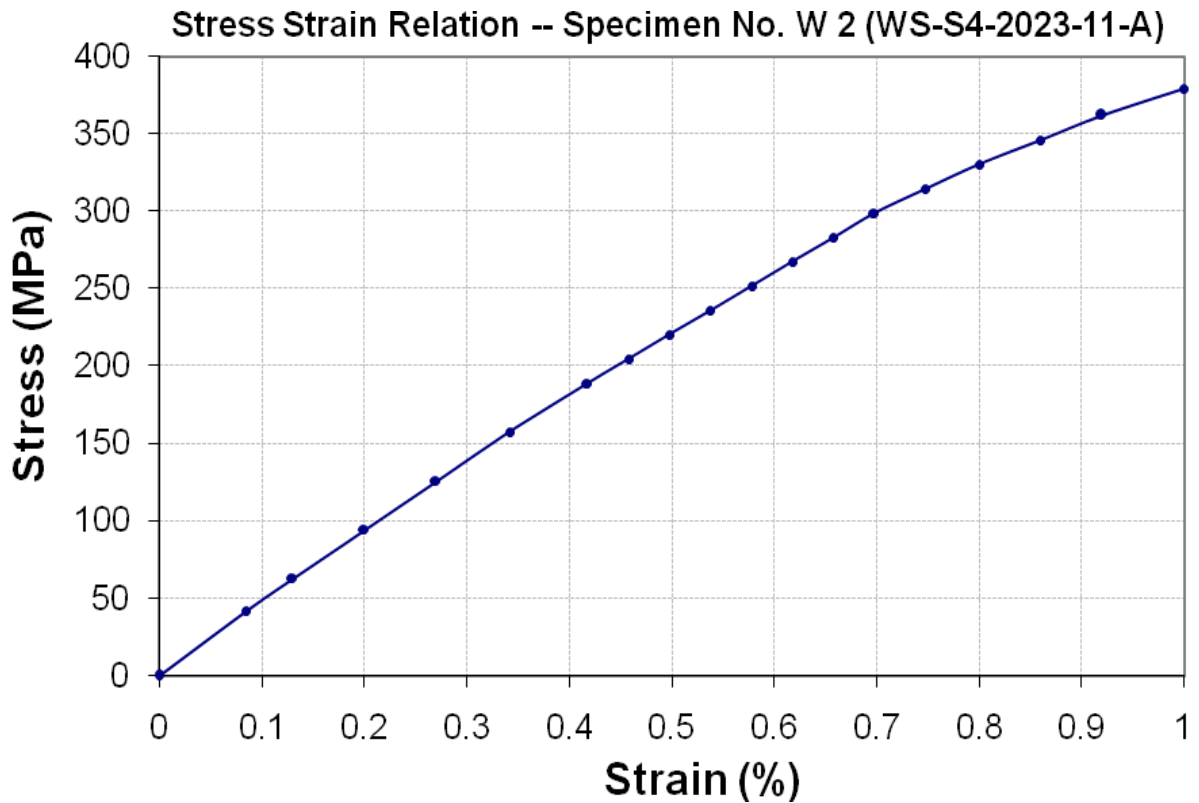
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Graph (Page – 3/3)



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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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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 **4441** (Dr. M Kashif)

Dated: 02-01-2024

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

Dated: 01-01-2024

Tension Test Report (Page – 1/6)

Date of Test 08-01-2024

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	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	15.24 (0.6")	1102.0	1118.0	24600	241.33	27300	267.81	199	>3.50	xx
2	15.24 (0.6")	1102.0	1123.0	24100	236.42	27500	269.78	199	>3.50	xx
3	15.24 (0.6")	1102.0	1124.0	24300	238.38	27100	265.85	199	>3.50	xx
4	15.24 (0.6")	1102.0	1120.0	24300	238.38	27200	266.83	199	>3.50	xx
5	15.24 (0.6")	1102.0	1121.0	25000	245.25	27600	270.76	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	

Only five 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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To,

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

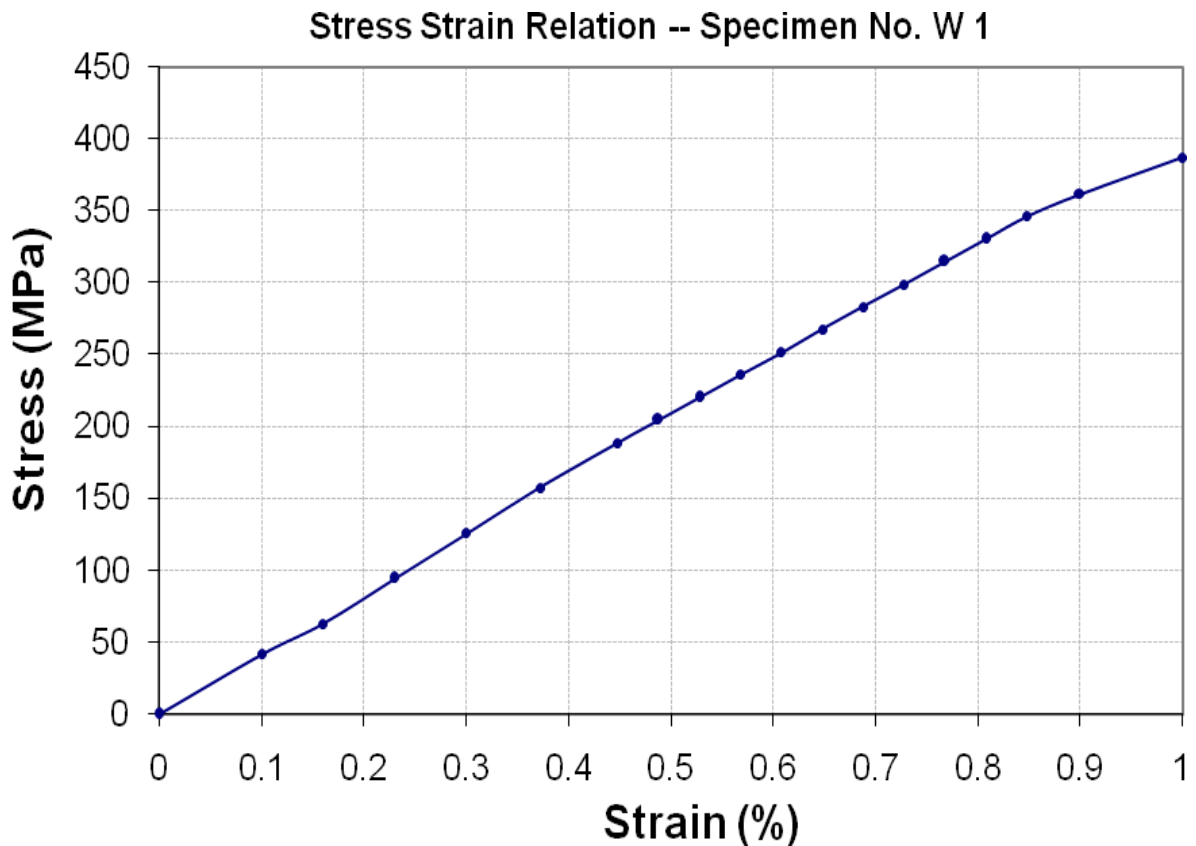
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Dated: 02-01-2024

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

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Graph (Page – 2/6)



I/C Testing Laboratories
UET Lahore, Pakistan.

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Tarbela 5th Extension Hydropower Project Management Department
(Wire Manufacturing Industry Limited.)

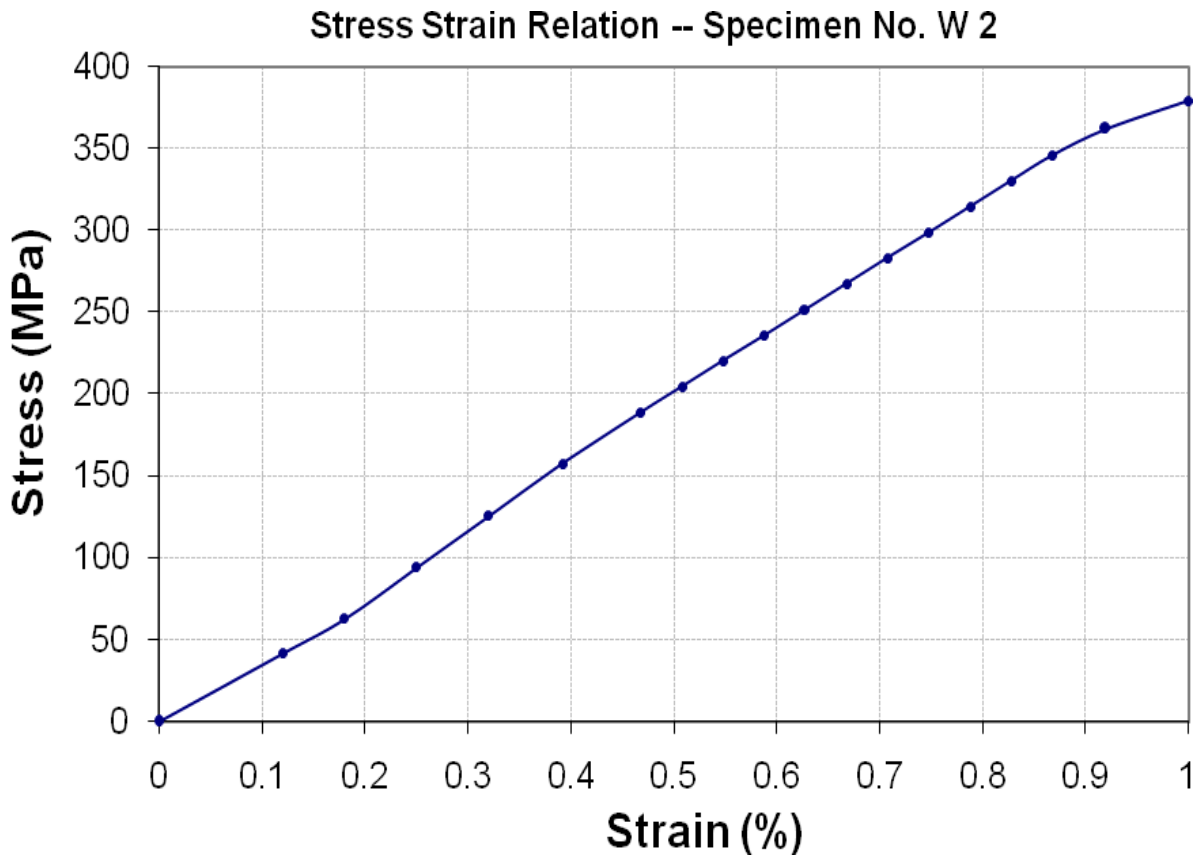
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Graph (Page – 3/6)



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UET Lahore, Pakistan.

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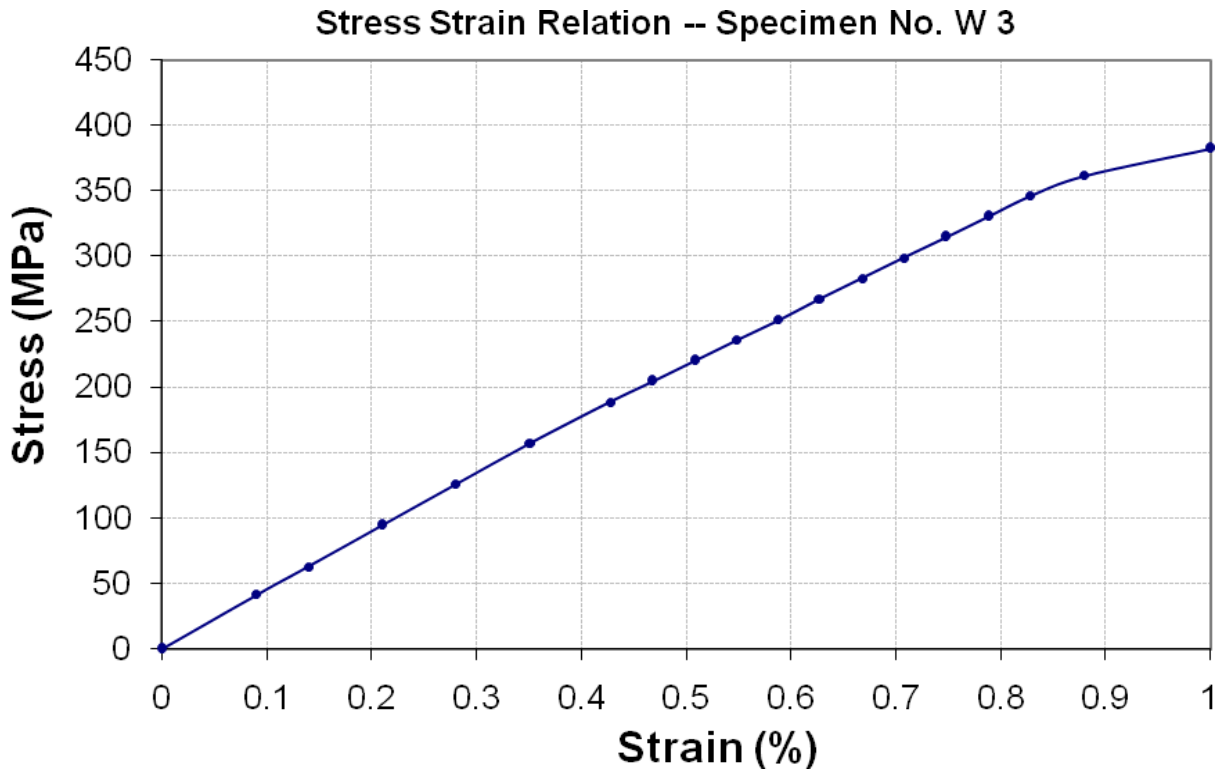
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Graph (Page – 4/6)



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To,

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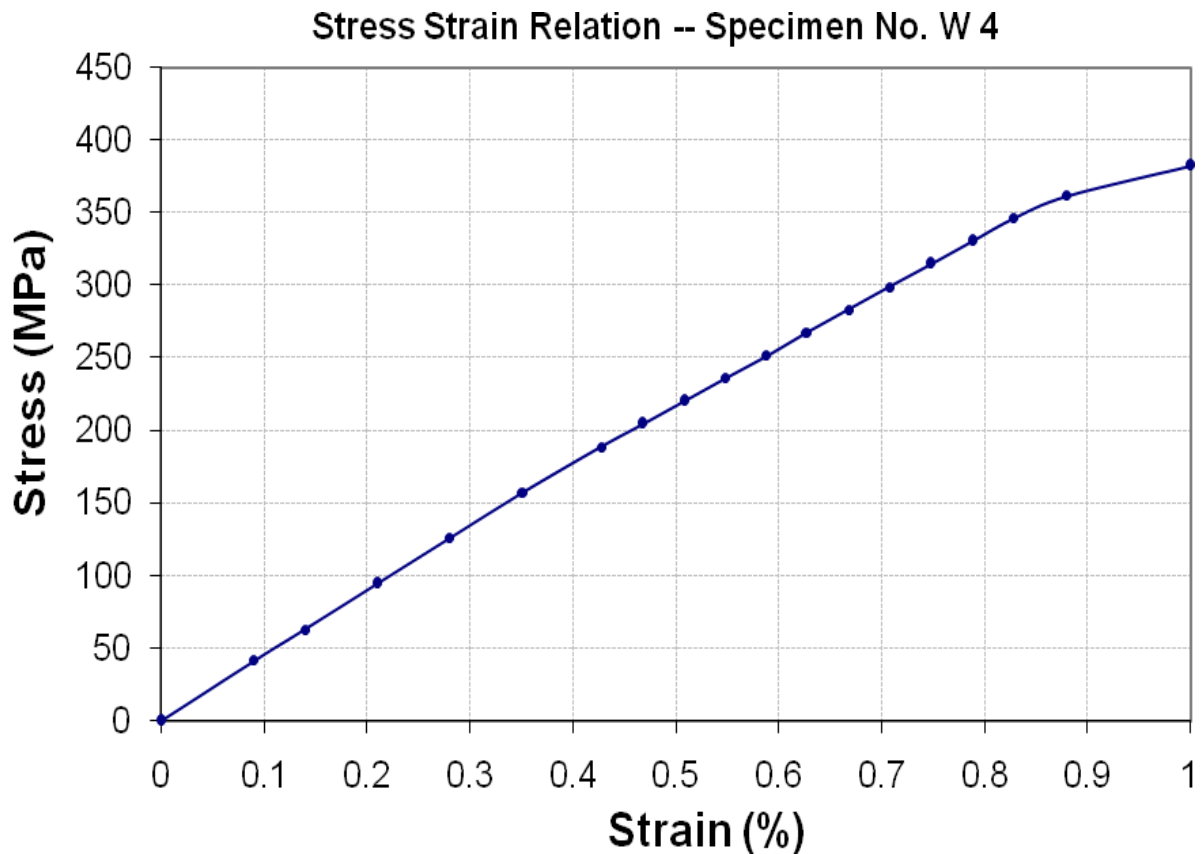
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Graph (Page – 5/6)



I/C Testing Laboratories
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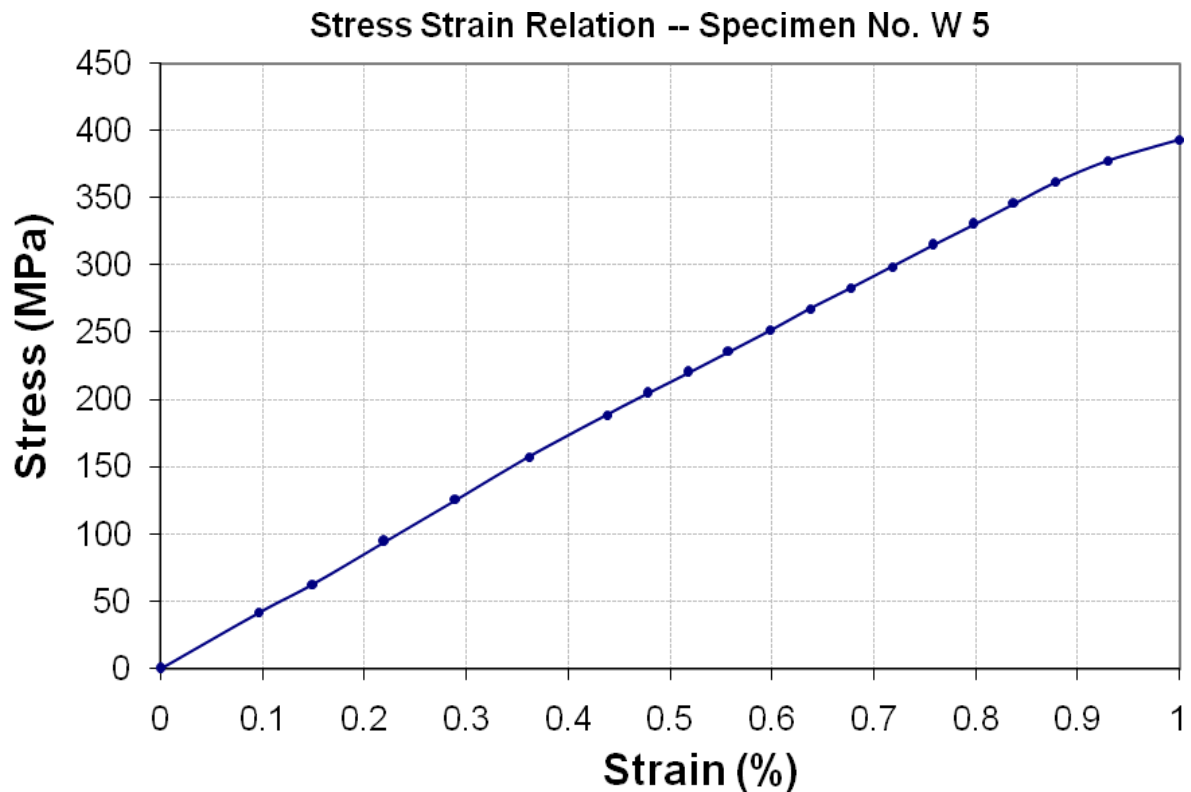
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Dated: 01-01-2024

Graph (Page – 6/6)



I/C Testing Laboratories
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,

Resident Engineer
 AZEA, Narowal
 Widening / Improvement of Road from Siakkot Cantt to Jassar Garrison Length = 69.00
 km in District Narowal.

Reference # CED/TFL **4455** (Dr. M Kashif)
 Reference of the request letter # AZ/RE/SNR/68

Dated: 04-01-2024
 Dated: 21-12-2023

Tension Test Report (Page -1/2)

Date of Test 08-01-2024
 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	0.400	3	0.387	0.11	0.118	3690	5580	74000	69180	111900	104700	1.20	15.0	Farooq Supreme Steel
2	0.396	3	0.385	0.11	0.117	3790	5630	76000	71690	112900	106500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
AZEA, Narowal
Widening / Improvement of Road from Siakkot Cantt to Jassar Garrison Length = 69.00
km in District Narowal.

Reference # CED/TFL **4455** (Dr. M Kashif)
Reference of the request letter # AZ/RE/SNR/69

Dated: 04-01-2024
Dated: 21-12-2023

Tension Test Report (Page -2/2)

Date of Test 08-01-2024
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	0.393	3	0.383	0.11	0.115	3540	5420	71000	67590	108600	103500	1.20	15.0	Islamabad Supreme Steel	
2	0.377	3	0.376	0.11	0.111	3430	5120	68800	68250	102600	101900	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.

Note:

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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 KAY & EMMS (Pvt) Ltd.
Faisalabad

Reference # CED/TFL 4456 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 05-01-2024
Dated: 05-01-2024

Tension Test Report (Page -1/1)

Date of Test 08-01-2024
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 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	0.367	3/8	0.370	0.11	0.108	3890	4960	78000	79580	99400	101500	1.40	17.5	
2	0.366	3/8	0.370	0.11	0.107	3870	4990	77600	79390	100000	102400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
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,

Sub Divisional Officer
Buildings Sub Division No. 2
Multan
(Construction of New Administration Block Lahore High Court Multan Bench Multan)
(Group No. 1)

Reference # CED/TFL **4457** (Dr. M Kashif)
Reference of the request letter # 1316/SDO 2nd

Dated: 05-01-2024
Dated: 23-11-2023

Tension Test Report (Page -1/1)

Date of Test 08-01-2024
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	0.373	3	0.374	0.11	0.110	3770	5170	75600	75750	103600	103900	0.90	11.3	
2	0.375	3	0.374	0.11	0.110	3920	5300	78600	78470	106200	106100	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Manager Construction Quality
EastGate Industries (Pvt) Limited
Construction of New Office Building at EGA-2 Gajumatta, Rohi Nala, Lahore.

Reference # CED/TFL **4458** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 05-01-2024
Dated: 05-01-2024

Tension Test Report (Page -1/1)

Date of Test 08-01-2024
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 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	0.373	3/8	0.374	0.11	0.110	3980	5980	79800	79920	119900	120100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

M/S S.A. Sheikh & Co.
Lahore

Reference # CED/TFL **4459, 4468 (Dr. M Kashif)**
Reference of the request letter # SASheikh/AB/CET/2401

Dated: 05-01-2024
Dated: 05-01-2023

Tension Test Report (Page -1/1)

Date of Test 08-01-2024
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	8.294	38	36.68	-----	1056.6	-----	110800	-----	1029	0.40	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Project Manager
MS IT Tower
Construction of MS IT Tower at Plat 450, 451 Johar Town, Lahore

Reference # CED/TFL **4460** (Dr. M Kashif)
Reference of the request letter # MSITT/UET/2024/S-003

Dated: 05-01-2024
Dated: 05-01-2024

Tension Test Report (Page -1/1)

Date of Test 08-01-2024
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	0.380	3	0.377	0.11	0.112	4540	5400	91000	89690	108200	106700	1.10	13.8	Afco Steel
2	0.404	3	0.389	0.11	0.119	4540	5450	91000	84240	109200	101200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **4463** (Dr. M Kashif)
Reference of the request letter # VECO/2024/0801/8890

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

Tension Test Report (Page – 1/2)

Date of Test 08-01-2023
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	442.0	10100	99.08	10900	106.93	>3.50	3
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one samples for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

M/S Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **4463** (Dr. M Kashif)

Dated: 08-01-2024

Reference of the request letter # VECO/2024/0801/8890-A

Dated: 08-01-2024

Tension Test Report (Page – 2/2)

Date of Test 08-01-2023

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	442.0	9300	91.23	10900	106.93	>3.50	4
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one samples for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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