



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

To,

C.E.O

Star Engineering

Construction of ALPHA-12 Building PAF Nur Khan Base RWP.

Reference # CED/TFL **3554** (Dr. M Rizwan Riaz)

Dated: 04-07-2023

Reference of the request letter # SE-A12-01-R-0

Dated: 07-06-2023

Tension Test Report (Page – 1/3)

Date of Test 11-07-2023

Gauge length 2 inches

Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Plate	4	25.00x4.10	102.50	5300	6800	507	651	0.50	25.00	
2	MS Plate	5	25.10x5.00	125.50	3200	3700	250	289	0.60	30.00	
3	MS Plate	6	25.20x5.80	146.16	6000	7900	403	530	0.60	30.00	
4	MS Plate	24	25.20x24.30	612.36	17500	22600	280	362	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
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,
C.E.O
Star Engineering
Construction of PAF Techno Park Building Kamra.

Reference # CED/TFL **3554** (Dr. M Rizwan Riaz)
Reference of the request letter # SE-TP-01-R-0

Dated: 04-07-2023
Dated: 12-06-2023

Tension Test Report (Page – 2/3)

Date of Test 11-07-2023
Gauge length 2 inches
Description MS Plate Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip (mm)	X Section Area (mm ²)	Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation (in)	% Elongation	Remarks
	(mm)										
1	MS Plate	4	25.00x4.30	107.50	5800	7400	529	675	0.50	25.00	
2	MS Plate	5	25.10x5.00	125.50	2800	3800	219	297	0.70	35.00	
3	MS Plate	6	25.10x5.80	145.58	6000	7800	404	526	0.50	25.00	
4	MS Plate	8	25.10x7.70	193.27	7500	9400	381	477	0.50	25.00	
5	MS Plate	10	25.30x9.90	250.47	12000	15400	470	603	0.60	30.00	
6	MS Plate	12	25.10x11.80	296.18	14000	17000	464	563	0.70	35.00	
7	MS Plate	24	25.00x24.50	612.50	17500	22600	280	362	0.90	45.00	
Only Seven Sample for Tensile Test											
Bend Test											

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UET Lahore, Pakistan.

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 Construction of PAF Techno Park Building Kamra.

Reference # CED/TFL **3554** (Dr. M Rizwan Riaz)
 Reference of the request letter # SE-TP-01-R-0

Dated: 04-07-2023
 Dated: 12-06-2023

Tension Test Report (Page -3/3)

Date of Test 11-07-2023
 Gauge length 8 inches
 Description Anchor Bolt 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	5.692	30	30.38	-----	725.1	27200	42000	368	568	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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

Reference # CED/TFL **3562** (Dr. M Rizwan Riaz)
Reference of the request letter # DBCG/Lab/PF JV/2023/034

Dated: 06-07-2023
Dated: 15-06-2023

Tension Test Report (Page -1/3)

Date of Test 11-07-2023
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)		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	782.0	18000	176.58	19300	189.33	199	>3.50	WS-S4-2022-07A
2	15.24 (0.6")	1102.0	1105.0	24300	238.38	27400	268.79	199	>3.50	WS-S4-2022-07
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

Note:

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To,

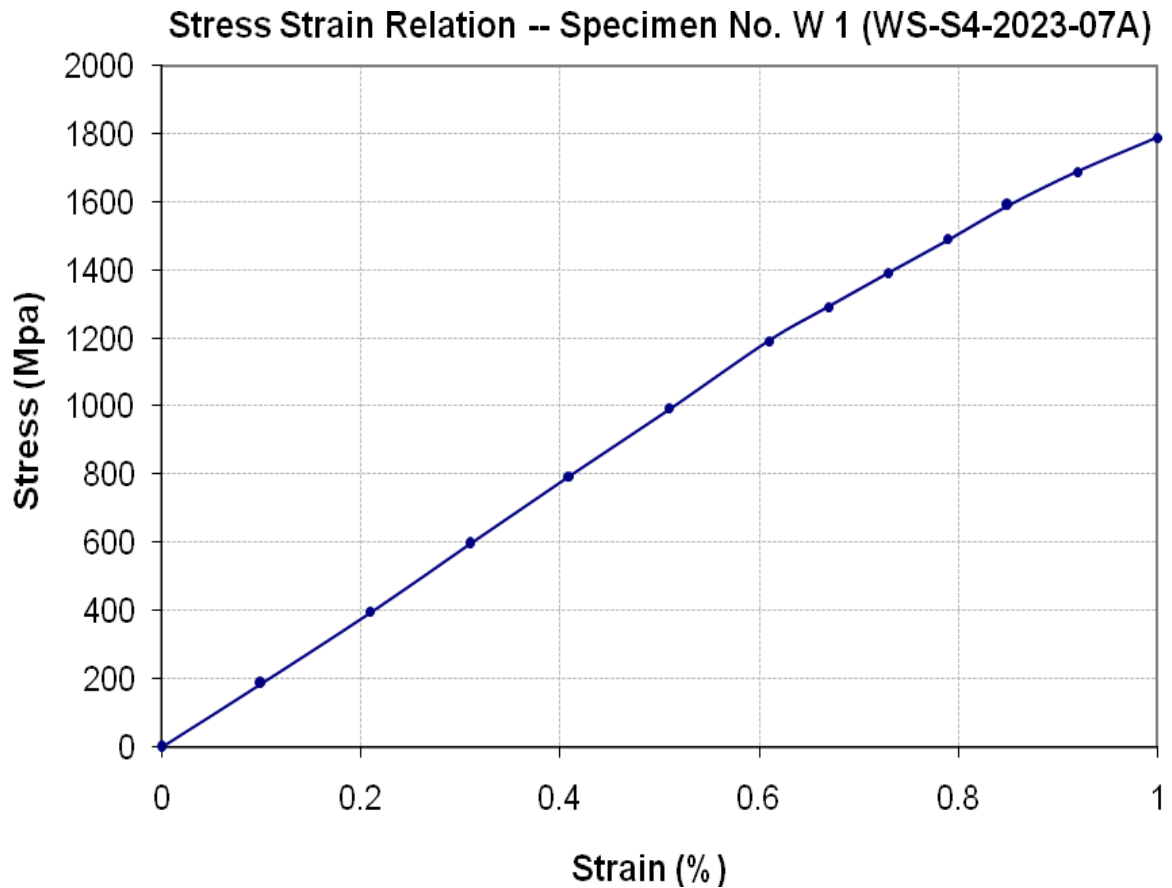
Resident Engineer
Diamer Basha Consultants Group (DBCG)
NESPAK - ACE -MMP - MWH - ROYRY - DOLSAR Jv
Diamer Basha Dam Project

Reference # CED/TFL **3562** (Dr. M Rizwan Riaz)
Reference of the request letter # DBCG/Lab/PF JV/2023/034

Dated: 06-07-2023

Dated: 15-06-2023

Graph (Page – 2/3)



I/C Testing Laboratories
UET Lahore, Pakistan.

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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

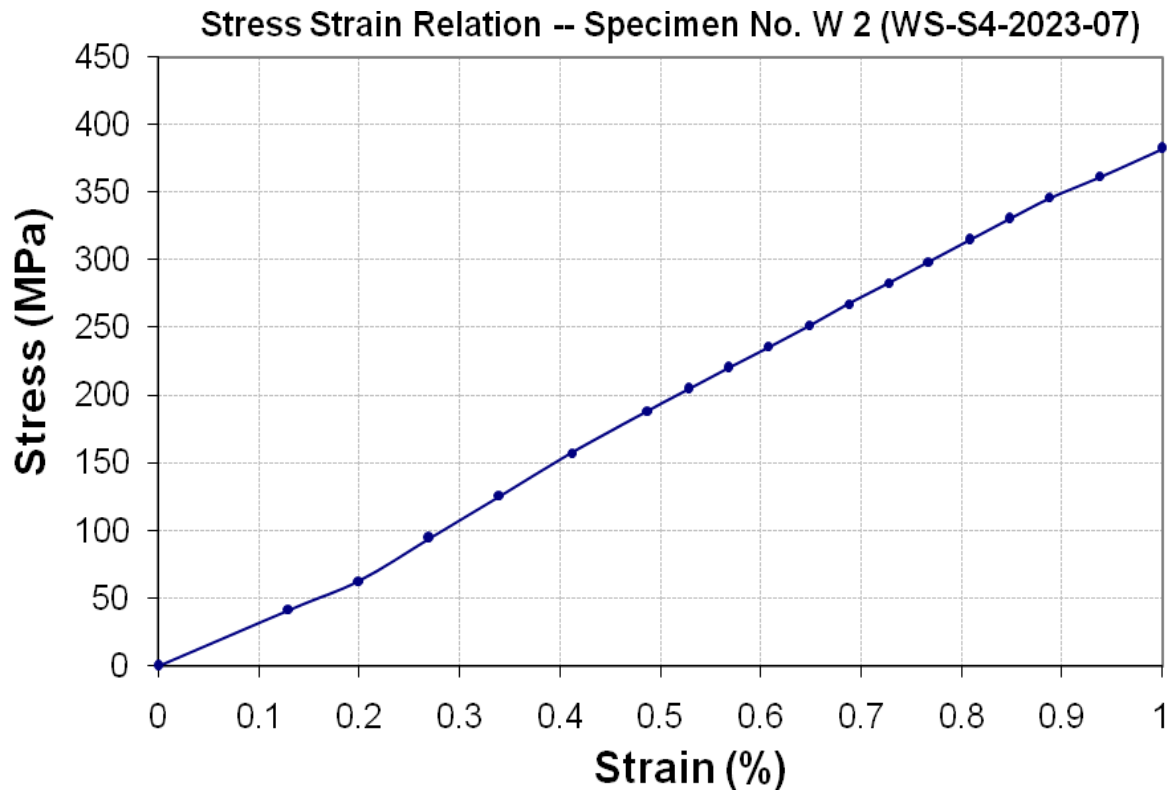
Reference # CED/TFL **3562** (Dr. M Rizwan Riaz)

Dated: 06-07-2023

Reference of the request letter # DBCG/Lab/PF JV/2023/034

Dated: 15-06-2023

Graph (Page – 3/3)



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

To,

Resident Engineer
NESPAK
Construction of Multi-Level Grade Separation Flyover at Shahdra Morr, Lahore
(United Wire Industries)

Reference # CED/TFL **3564** (Dr. Rizwan Riaz)
Reference of the request letter # 4537/03/MSA/09/80

Dated: 07-07-2023
Dated: 04-07-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
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	12.70 (1/2")	775.0	786.0	17600	172.66	20000	196.20	>3.50	3920
2	12.70 (1/2")	775.0	787.0	17600	172.66	20200	198.16	>3.50	3946
3	12.70 (1/2")	775.0	784.0	18000	176.58	20000	196.20	>3.50	3950
4	12.70 (1/2")	775.0	786.0	17500	171.68	20100	197.18	>3.50	3957
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	

Only four samples for Test

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
NESPAK
Construction of Flyover / Underpass at Akbar Chowk Lahore
(Revised: Signal Free Corridor) (M/s United Wires (Pvt) Ltd.)

Reference # CED/TFL **3566** (Dr. M Rizwan Riaz)
Reference of the request letter # 3772/103/ACF/SA/04/111

Dated: 07-07-2023
Dated: 05-07-2023

Tension Test Report (Page -1/6)

Date of Test 11-07-2023
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	15.24 (0.6")	1102.0	1113.0	23200	227.59	26700	261.93	199	>3.50	1271
2	15.24 (0.6")	1102.0	1114.0	23800	233.48	26500	259.97	199	>3.50	1265
3	15.24 (0.6")	1102.0	1115.0	23800	233.48	26800	262.91	199	>3.50	1225
4	15.24 (0.6")	1102.0	1114.0	23200	227.59	26900	263.89	198	>3.50	1262
5	15.24 (0.6")	1102.0	1121.0	23300	228.57	26800	262.91	199	>3.50	1282
-	-	-	-	-	-	-	-	-	-	-

Only five samples for Test

Witness by M. Saleem (MS NESPAK)

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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To,

Resident Engineer
NESPAK
Construction of Flyover / Underpass at Akbar Chowk Lahore
(Revised: Signal Free Corridor) (M/s United Wires (Pvt) Ltd.)

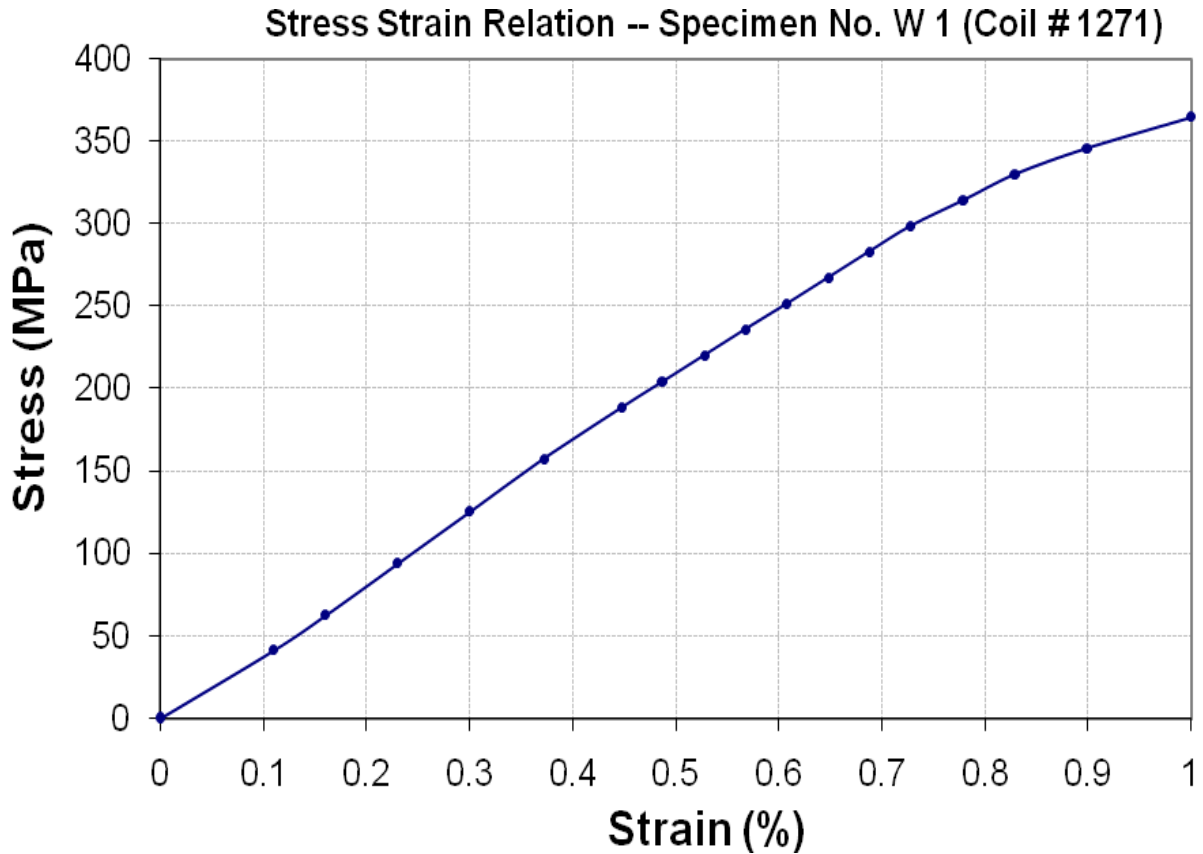
Reference # CED/TFL **3566** (Dr. M Rizwan Riaz)

Dated: 07-07-2023

Reference of the request letter # 3772/103/ACF/SA/04/111

Dated: 05-07-2023

Graph (Page – 2/6)



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
NESPAK
Construction of Flyover / Underpass at Akbar Chowk Lahore
(Revised: Signal Free Corridor) (M/s United Wires (Pvt) Ltd.)

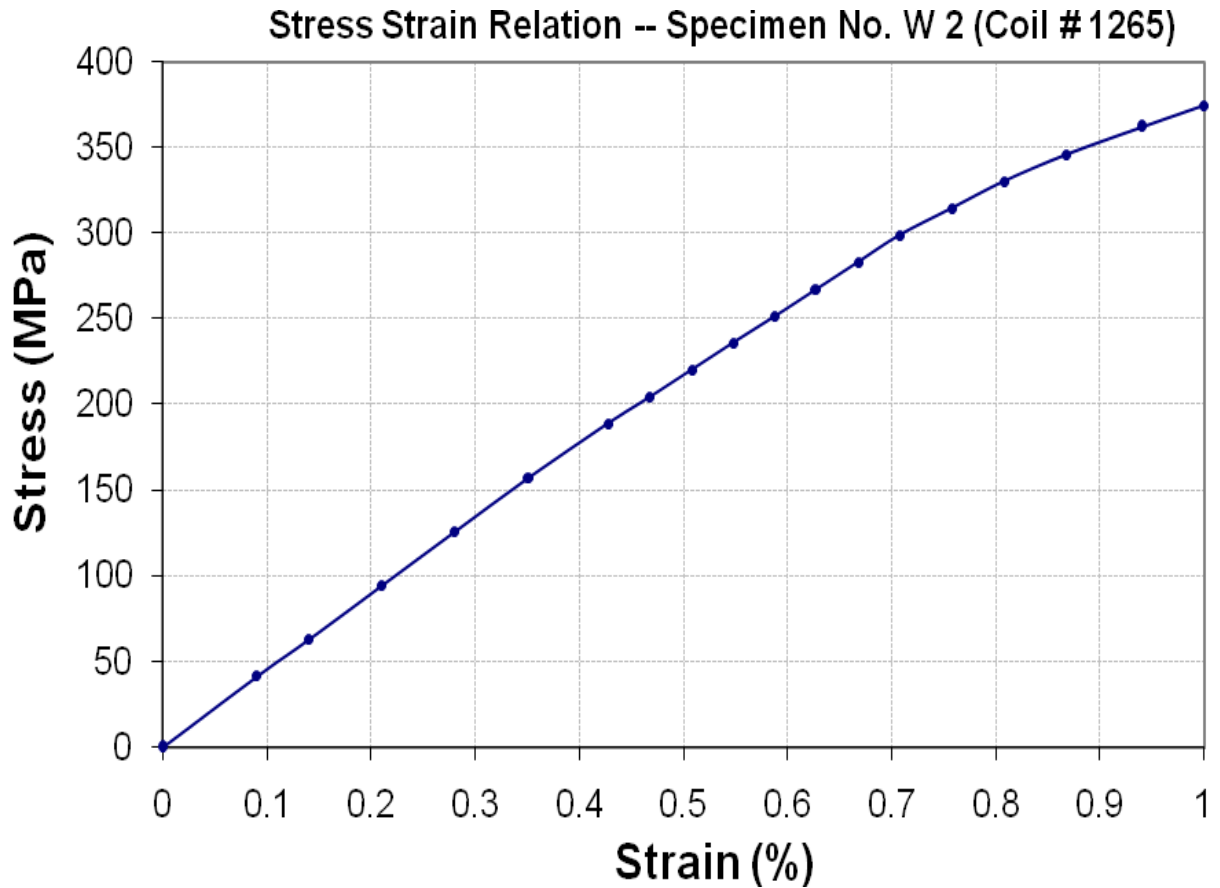
Reference # CED/TFL **3566** (Dr. M Rizwan Riaz)

Dated: 07-07-2023

Reference of the request letter # 3772/103/ACF/SA/04/111

Dated: 05-07-2023

Graph (Page – 3/6)



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To,

Resident Engineer
NESPAK
Construction of Flyover / Underpass at Akbar Chowk Lahore
(Revised: Signal Free Corridor) (M/s United Wires (Pvt) Ltd.)

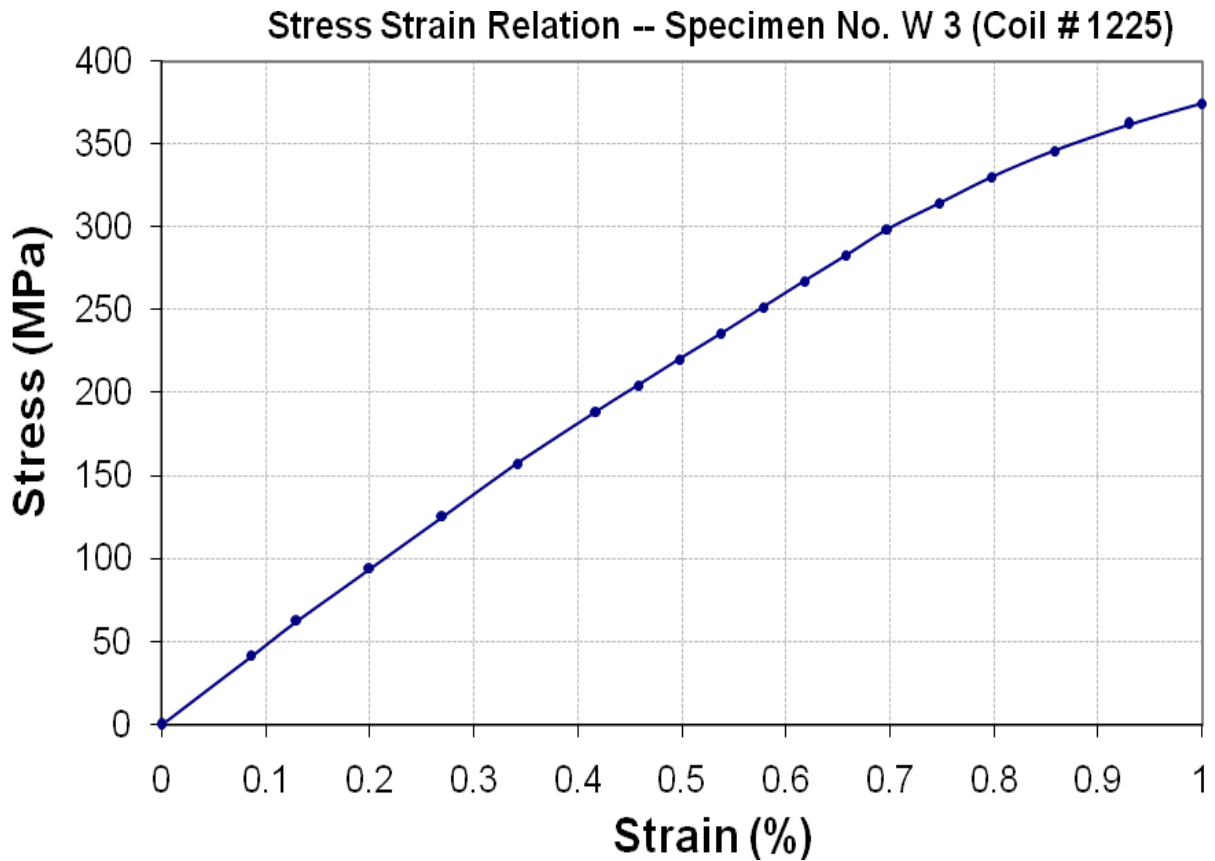
Reference # CED/TFL **3566** (Dr. M Rizwan Riaz)

Dated: 07-07-2023

Reference of the request letter # 3772/103/ACF/SA/04/111

Dated: 05-07-2023

Graph (Page – 4/6)



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To,

Resident Engineer
NESPAK
Construction of Flyover / Underpass at Akbar Chowk Lahore
(Revised: Signal Free Corridor) (M/s United Wires (Pvt) Ltd.)

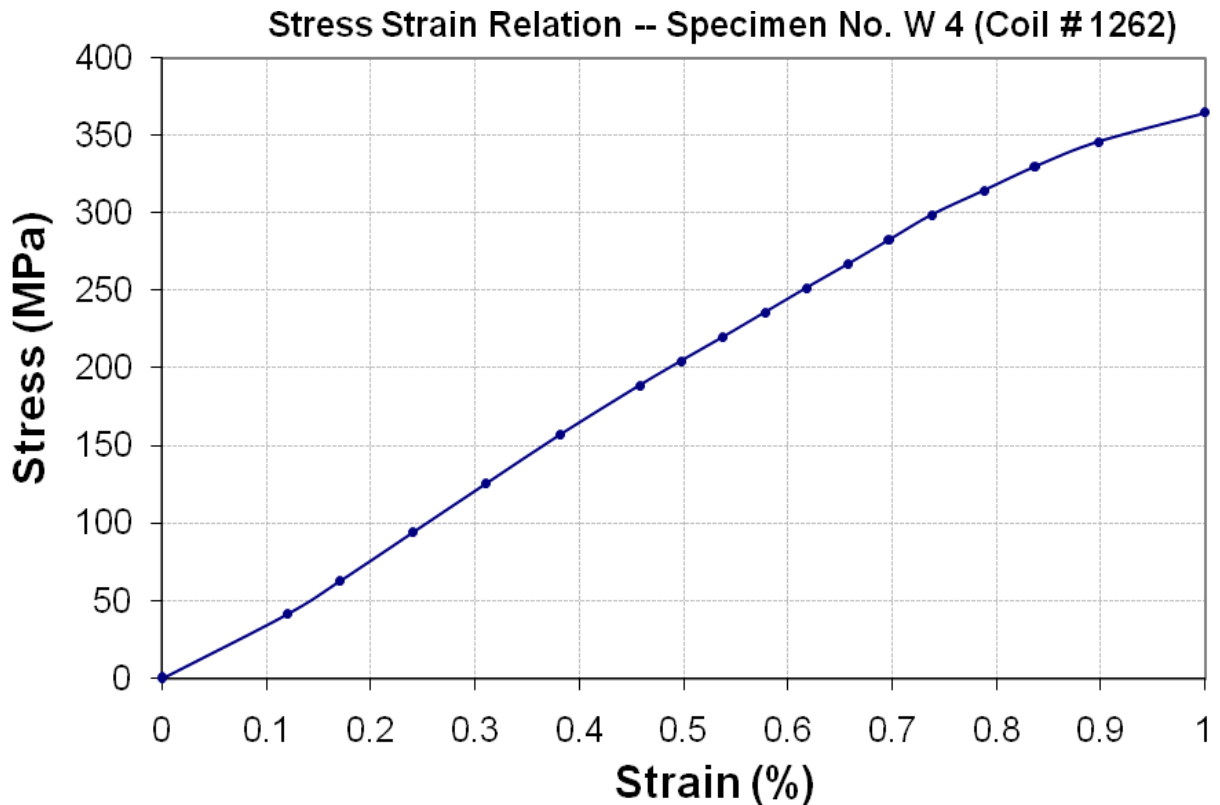
Reference # CED/TFL **3566** (Dr. M Rizwan Riaz)

Dated: 07-07-2023

Reference of the request letter # 3772/103/ACF/SA/04/111

Dated: 05-07-2023

Graph (Page – 5/6)



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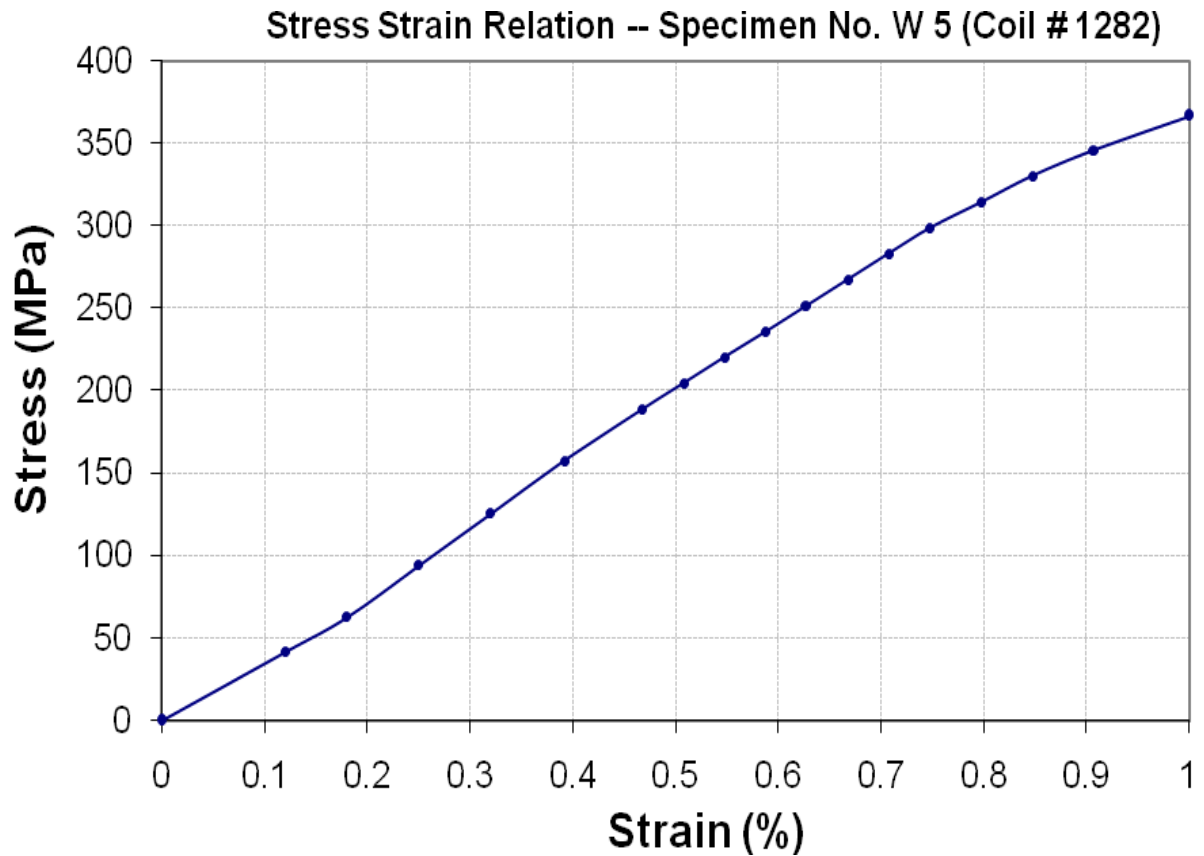
To,

Resident Engineer
NESPAK
Construction of Flyover / Underpass at Akbar Chowk Lahore
(Revised: Signal Free Corridor) (M/s United Wires (Pvt) Ltd.)

Reference # CED/TFL **3566** (Dr. M Rizwan Riaz)
Reference of the request letter # 3772/103/ACF/SA/04/111

Dated: 07-07-2023
Dated: 05-07-2023

Graph (Page – 6/6)



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

Ref: CED/TFL/07/3567

Dated: 07-07-2023

Date of Test: 11-07-2023

To,
M/S Lahore RCC Pipe Factory
Lahore

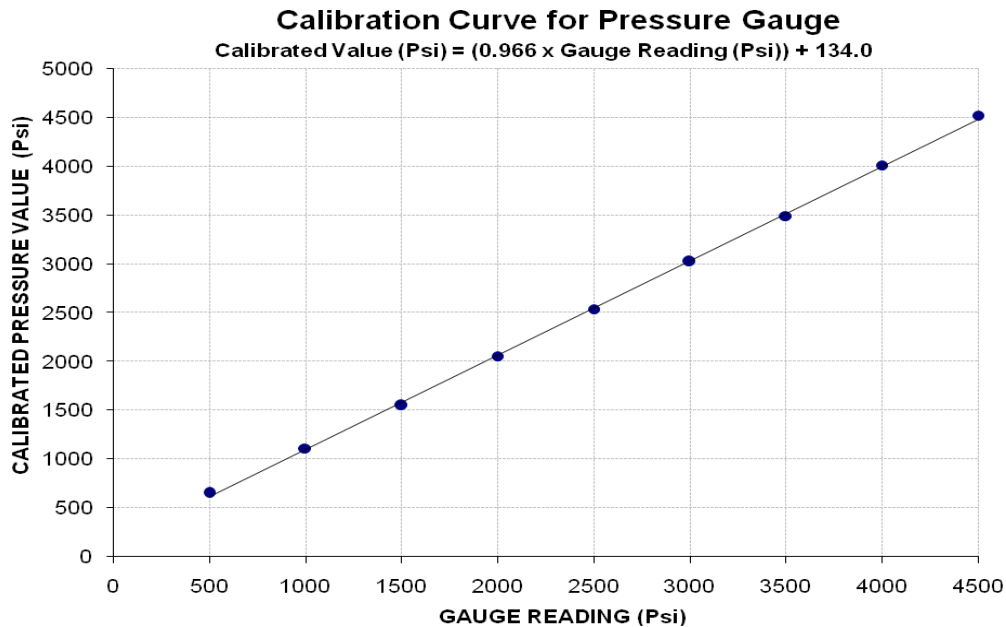
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/07/3567)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 07/07/2023 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 6000 (Psi)
Calibrated Range : Zero - 4500 (Psi)

Pressure Gauge Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500
Calibrated Load (kg)	9100	15500	21600	28600	35300	42100	48600	55800	62900
Calibrated Pressure (Psi)	654	1113	1552	2054	2536	3024	3491	4008	4518

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
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To,

Chief Resident Engineer
Future Development Holdings (Pvt) Ltd.
Development of Capital Smart City, Islamabad
(WMI)

Reference # CED/TFL **3569** (Dr. Rizwan Riaz)
Reference of the request letter # FDHL/CSC/7/2023/0263

Dated: 10-07-2023
Dated: 10-07-2023

Tension Test Report (Page -1/4)

Date of Test 11-07-2023
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)		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	788.0	17900	175.60	19500	191.30	198	>3.50	24612
2	12.70 (1/2")	775.0	788.0	17600	172.66	19200	188.35	199	>3.50	24620
3	12.70 (1/2")	775.0	788.0	17500	171.68	19300	189.33	199	>3.50	24628
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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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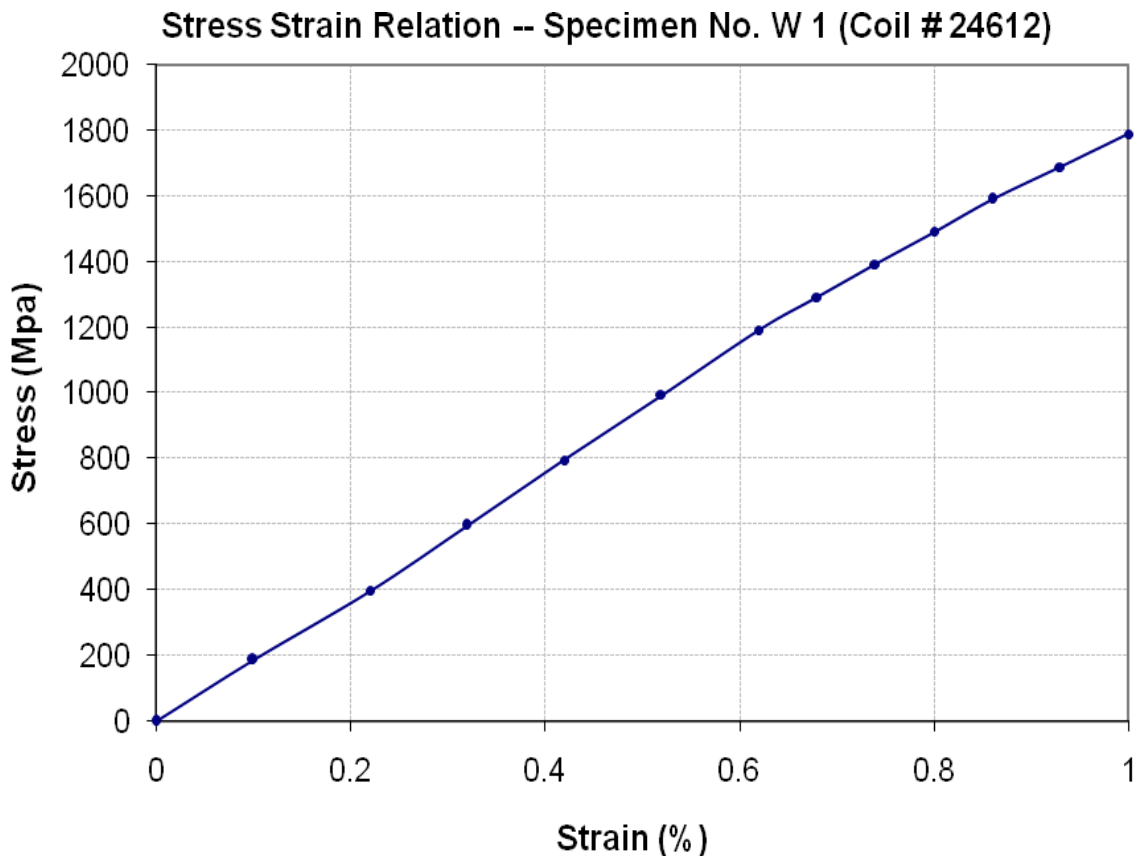
To,

Chief Resident Engineer
Future Development Holdings (Pvt) Ltd.
Development of Capital Smart City, Islamabad
(WMI)

Reference # CED/TFL **3569** (Dr. Rizwan Riaz)
Reference of the request letter # FDHL/CSC/7/2023/0263

Dated: 10-07-2023
Dated: 10-07-2023

Graph (Page – 2/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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

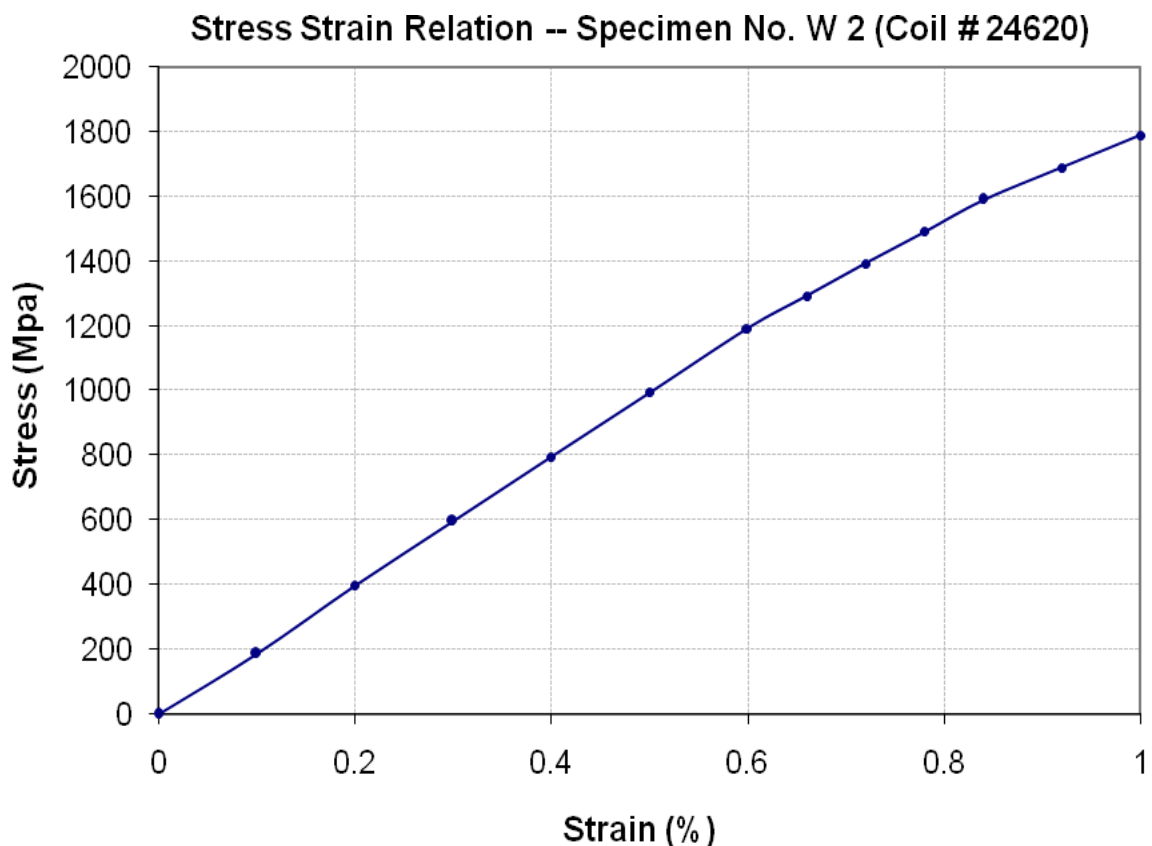
To,

Chief Resident Engineer
Future Development Holdings (Pvt) Ltd.
Development of Capital Smart City, Islamabad
(WMI)

Reference # CED/TFL **3569** (Dr. Rizwan Riaz)
Reference of the request letter # FDHL/CSC/7/2023/0263

Dated: 10-07-2023
Dated: 10-07-2023

Graph (Page – 3/4)



I/C Testing Laboratories
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,

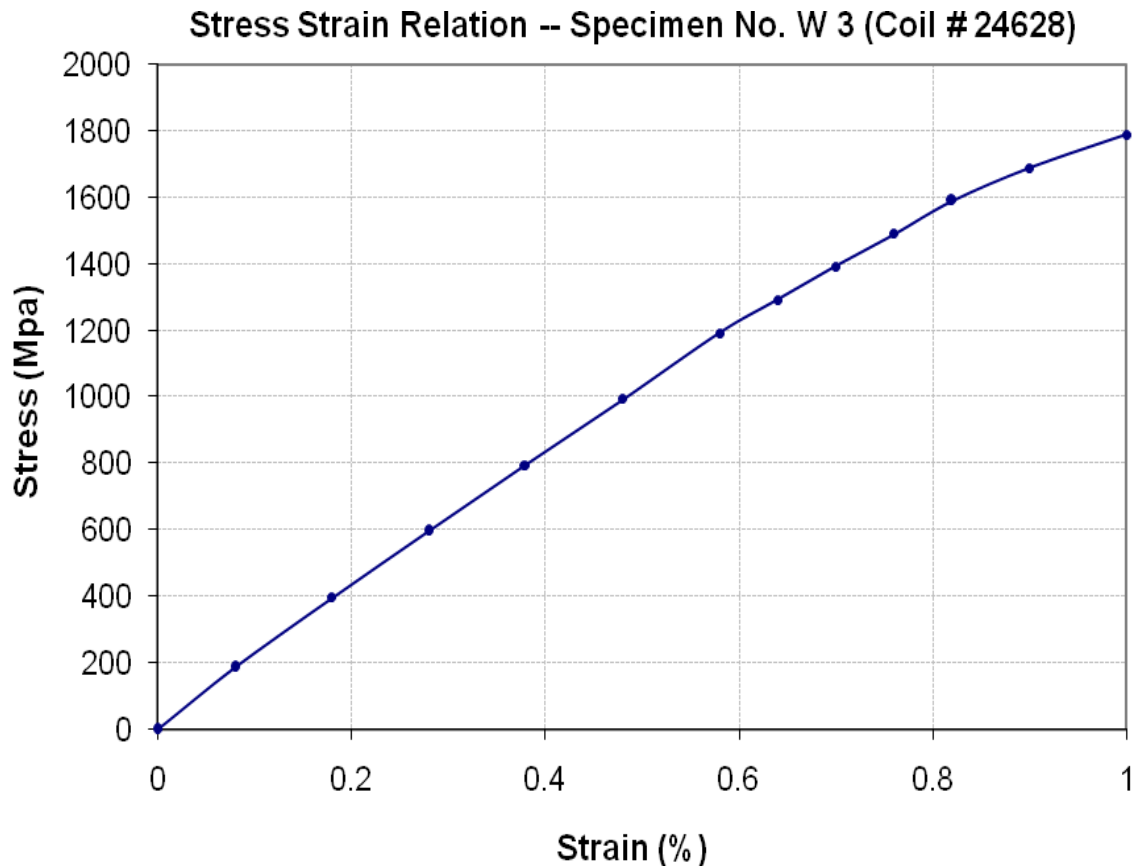
Chief Resident Engineer
Future Development Holdings (Pvt) Ltd.
Development of Capital Smart City, Islamabad
(WMI)

Reference # CED/TFL **3569** (Dr. Rizwan Riaz)
Reference of the request letter # FDHL/CSC/7/2023/0263

Dated: 10-07-2023

Dated: 10-07-2023

Graph (Page – 4/4)



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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,
M/S Millat Iron Store
Goli Maar Road, Sukkur

Reference # CED/TFL **3571** (Dr. M Rizwan Raiz)
Reference of the request letter # Nil

Dated: 10-07-2023
Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
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	3300	4700	66200	66880	94200	95300	1.50	18.8	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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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 Bihtai Iron Store
GT Road, Daharki

Reference # CED/TFL **3572** (Dr. M Rizwan Raiz)
Reference of the request letter # Nil

Dated: 10-07-2023
Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
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	0.415	10	10.01	0.12	0.122	3400	4900	62464	61390	90021	88500	1.40	17.5	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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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,
 M/S Liaqat Iron Store
 Rang Pur Road, Chowk Sarwar

Reference # CED/TFL **3573** (Dr. M Rizwan Raiz)
 Reference of the request letter # Nil

Dated: 10-07-2023
 Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
 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	0.379	3	0.377	0.11	0.112	3400	4800	68200	67190	96200	94900	1.40	17.5	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Mr. M Ijaz
 DHA Multan

Reference # CED/TFL **3574** (Dr. M Rizwan Raiz)
 Reference of the request letter # Nil

Dated: 10-07-2023
 Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
 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	0.368	3	0.371	0.11	0.108	3300	4700	66200	67250	94200	95800	1.70	21.3	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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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 Munshi Siddique Iron Store
 Multan Road Chowk Azam

Reference # CED/TFL **3575** (Dr. M Rizwan Raiz)
 Reference of the request letter # Nil

Dated: 10-07-2023
 Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
 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	0.368	3	0.371	0.11	0.108	3200	4500	64200	65290	90200	91900	1.60	20.0	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 M/S Shaukat Cement Steel Corporation
 Mingora Swat

Reference # CED/TFL **3576** (Dr. M Rizwan Raiz)
 Reference of the request letter # Nil

Dated: 10-07-2023
 Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
 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	0.379	3	0.377	0.11	0.111	3300	4800	66200	65310	96200	95000	1.50	18.8	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 M/S Khemani Iron Store
 GT Road, Pano Aqil

Reference # CED/TFL **3577** (Dr. M Rizwan Raiz)
 Reference of the request letter # Nil

Dated: 10-07-2023
 Dated: 19-06-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
 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	0.382	3	0.378	0.11	0.112	3300	4600	66200	64860	92200	90400	1.50	18.8	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

To,
 GM
 Professional Construction Services (Pvt) Ltd.
 SICAS School Johar Town, (G.F) Lahore

Reference # CED/TFL **3578** (Dr. M Rizwan Raiz)
 Reference of the request letter # PCS/22/Eng-70-A

Dated: 10-07-2023
 Dated: 10-07-2023

Tension Test Report (Page -1/1)

Date of Test 11-07-2023
 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	0.367	3	0.370	0.11	0.108	3400	4900	68200	69540	98200	100300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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