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
MM Pakistan (Pvt) Ltd.
Improvement of Sewerage System and Construction of Waste Water Treatment Plant (WWTP) Kamalia City.

Reference # CED/TFL **6146** (Dr. Safeer Abbas) Dated: 12-12-2024
Reference of the request letter # MMP/1095/Kamalia/DW/75/2024 Dated: 09-12-2024

Tension Test Report (Page – 1/2)

Date of Test 19-12-2024
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile 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	**2x2x1/4**	**25.10x5.40**	**135.54**	**8100**	**9400**	**586**	**680**	**0.40**	**20.00**	
2	**3x3x3/8**	**25.10x8.80**	**220.88**	**12000**	**17000**	**533**	**755**	**0.50**	**25.00**	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two 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,

Assistant Resident Engineer
MM Pakistan (Pvt) Ltd.
Improvement of Sewerage System and Construction of Waste Water Treatment Plant (WWTP) Kamalia City.

Reference # CED/TFL **6146** (Dr. Safeer Abbas) Dated: 12-12-2024
Reference of the request letter # MMP/1095/Kamalia/DW/75/2024 Dated: 09-12-2024

Weight &Size Test Report

Date of Test 19-12-2024
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	**2x2x1/4**	**410**	**101.75**	**4.03**	**51.00**	**49.20**	**5.30**	
2	**3x3x3/8**	**1029**	**101.90**	**10.10**	**77.00**	**76.70**	**9.00**	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two 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 – TurkPak Jv
Reconstruction of Old P & D Building, Lahore.

Reference # CED/TFL **6161** (Dr. Safeer Abbas) Dated: 13-12-2024
Reference of the request letter # 4647/P&D/13/09/AZL/77 Dated: 10-12-2024

Tension Test Report (Page – 1/1)

Date of Test 19-12-2024
Gauge length 2 inches
Description MS Seamless Pipe Steel Strip Tensile 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	2	25.20x4.60	115.92	4500	5200	381	440	0.40	20.00	
2	4	25.30x5.40	136.62	6000	7300	431	524	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples 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,

Material Engineer
Kohitan Builders & Developers
Infrastructure Development of Kohistan Enclave Bridge
(WMI)

Reference # CED/TFL **6179** (Dr. Rizwan Azam) Dated: 17-12-2024
Reference of the request letter # KBD/KE/QA. QC/079 Dated: 16-12-2024

Tension Test Report (Page -1/4)

Date of Test 19-12-2024
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**	**779.0**	**17400**	**170.69**	**19500**	**191.30**	**199**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**781.0**	**17900**	**175.60**	**19500**	**191.30**	**198**	**>3.50**	**xx**
3	**12.70 (1/2")**	**780.0**	**780.0**	**18000**	**176.58**	**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 Laboratoires
UET Lahore, Pakistan.

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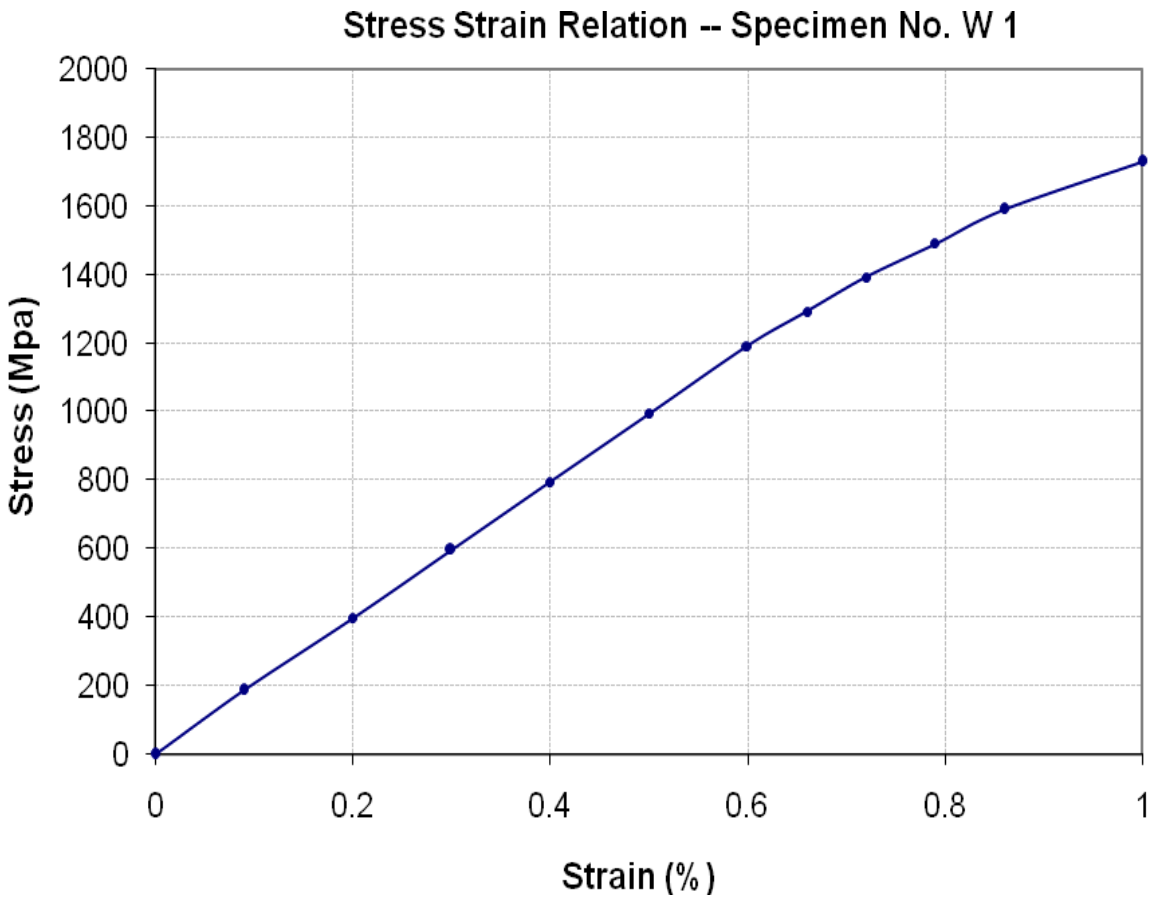
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Material Engineer
Kohitan Builders & Developers
Infrastructure Development of Kohistan Enclave Bridge
(WMI)

Reference # CED/TFL **6179** (Dr. Rizwan Azam) Dated: 17-12-2024
Reference of the request letter # KBD/KE/QA. QC/079 Dated: 16-12-2024

Graph (Page – 2/4)



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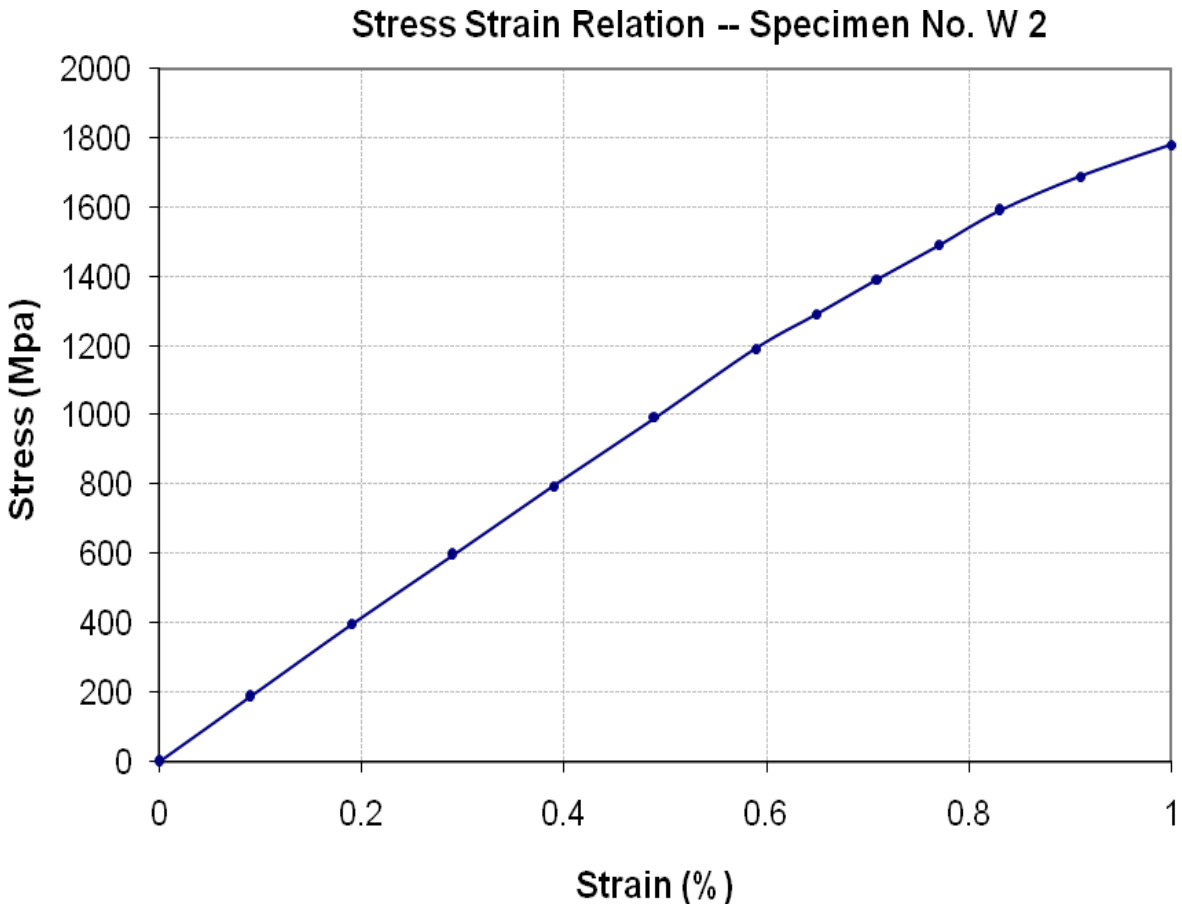
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Material Engineer
Kohitan Builders & Developers
Infrastructure Development of Kohistan Enclave Bridge
(WMI)

Reference # CED/TFL **6179** (Dr. Rizwan Azam) Dated: 17-12-2024
Reference of the request letter # KBD/KE/QA. QC/079 Dated: 16-12-2024

Graph (Page – 3/4)



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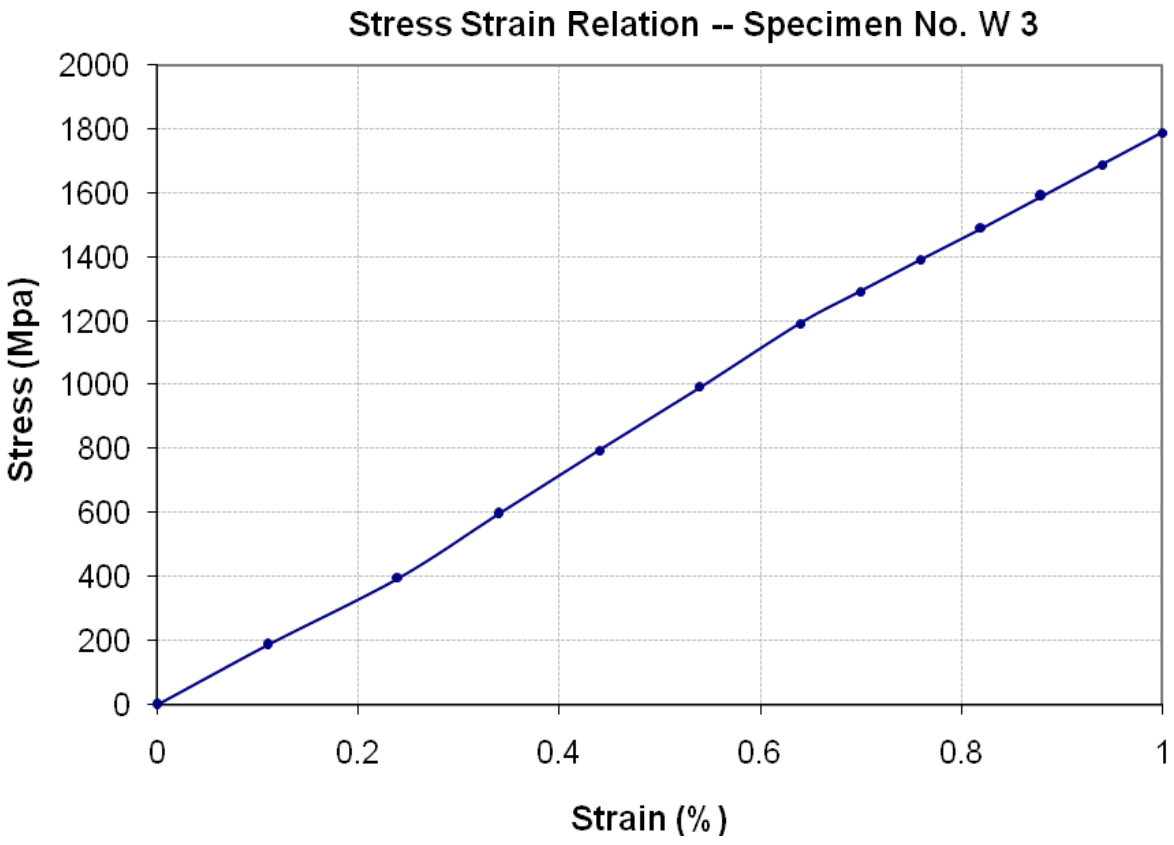
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Material Engineer
Kohitan Builders & Developers
Infrastructure Development of Kohistan Enclave Bridge
(WMI)

Reference # CED/TFL **6179** (Dr. Rizwan Azam) Dated: 17-12-2024
Reference of the request letter # KBD/KE/QA. QC/079 Dated: 16-12-2024

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 Vision Engineering (Pvt) Ltd
Lahore

Reference # CED/TFL **6181** (Dr. Rizwan Azam) Dated: 18-12-2024
Reference of the request letter # VECO/2024/0525/1785 Dated: 18-12-2024

Tension Test Report

Date of Test 19-12-2024
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)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	430.0	435.0	7500	73.58	11400	111.83	>3.50	1
2	9.53 (3/8")	430.0	435.0	10400	102.02	11500	112.82	>3.50	2
3	9.53 (3/8")	430.0	435.0	10000	98.10	11500	112.82	>3.50	3
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only three 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,

Manager Civil
Nishat Linen (Pvt) Limited
"Construction of Nishat Linen Fabric Godown Extension", Lahore.

Reference # CED/TFL **6184** (Dr. Rizwan Azam) Dated: 18-12-2024
Reference of the request letter # NL/ST/003 Dated: 17-12-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.407	10	9.92	0.12	0.120	3770	5680	69261	69380	104351	104600	1.40	17.5	Afaq Steel
2	0.404	10	9.88	0.12	0.119	3670	5660	67424	68090	103984	105100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

10mm Dia Bar Bend Test Through 180º 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 Banoori Developers & Marketing (Pvt) Ltd.
Islamababd

Reference # CED/TFL **6185** (Dr. Rizwan Azam) Dated: 18-12-2024
Reference of the request letter # Nil Dated: 18-12-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.409	3	0.391	0.11	0.120	3690	5100	74000	67570	102200	93400	1.50	18.8	
2	0.407	3	0.390	0.11	0.120	3620	5200	72600	66710	104200	95900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,

Construction Manager
Elite Engineering Pvt. Ltd.
Sitara 3 JAYS Tower.

Reference # CED/TFL **6187** (Dr. Rizwan Azam) Dated: 18-12-2024
Reference of the request letter # EEPL/08/EL-14 Dated: 18-12-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3	0.372	0.11	0.109	3410	5120	68400	69250	102600	104000	1.40	17.5	Markhor Steel
2	0.372	3	0.373	0.11	0.109	3330	5170	66800	67130	103600	104300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Bend Test

#3 Bar Bend Test Through 180º 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,

Sr. Civil Engineer
Style Textile (PVt) Ltd.
Construction of the Container Compound at SAP.

Reference # CED/TFL **6189** (Dr. Rizwan Azam) Dated: 19-12-2024
Reference of the request letter # Nil Dated: 09-12-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.418	10	10.05	0.12	0.123	4480	5370	82305	80350	98656	96400	0.80	10.0	
2	0.413	10	9.98	0.12	0.121	4610	5450	84693	83740	100126	99000	1.10	13.8	
3	0.413	10	9.99	0.12	0.121	4560	5370	83775	82780	98656	97500	1.00	12.5	
4	0.421	10	10.08	0.12	0.124	4690	5560	86163	83580	102146	99100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º is Satisfactory														
10mm Dia Bar Bend Test Through 180º 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
NESPAK
Resolving Traffic Congestion Issues at Serena Chowk and Convention Center Chowk, Islamabad. (United Wires)

Reference # CED/TFL **6192** (Dr. Ali Ahmed) Dated: 19-12-2024
Reference of the request letter # SA-527/SUP/103/AA/04/56 Dated: 17-12-2024

Tension Test Report (Page -1/3)

Date of Test 19-12-2024
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**	**786.0**	**18100**	**177.56**	**19700**	**193.26**	**199**	**>3.50**	**4659**
2	**12.70 (1/2")**	**780.0**	**787.0**	**18000**	**176.58**	**19900**	**195.22**	**199**	**>3.50**	**4698**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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.

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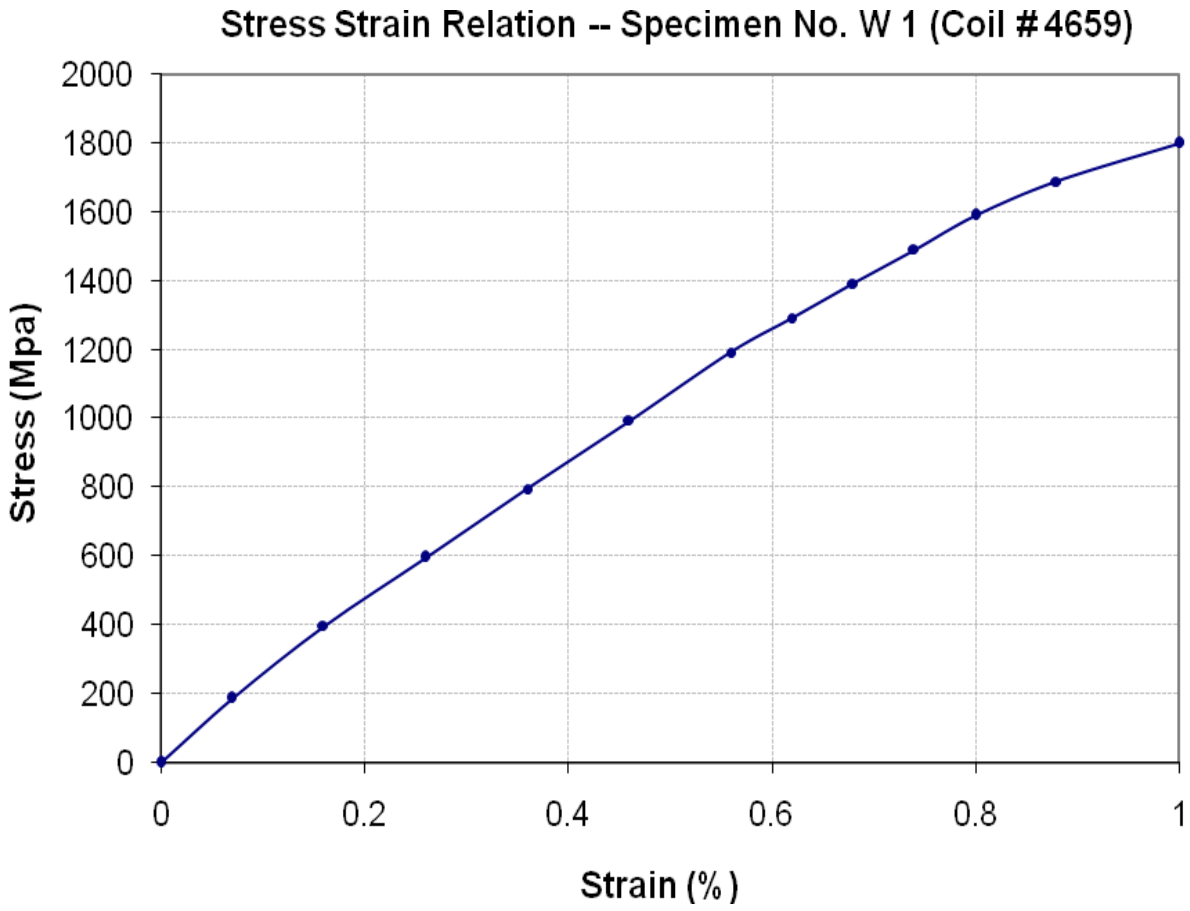
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Resolving Traffic Congestion Issues at Serena Chowk and Convention Center Chowk, Islamabad. (United Wires)

Reference # CED/TFL **6192** (Dr. Ali Ahmed) Dated: 19-12-2024
Reference of the request letter # SA-527/SUP/103/AA/04/56 Dated: 17-12-2024

Graph (Page – 2/3)



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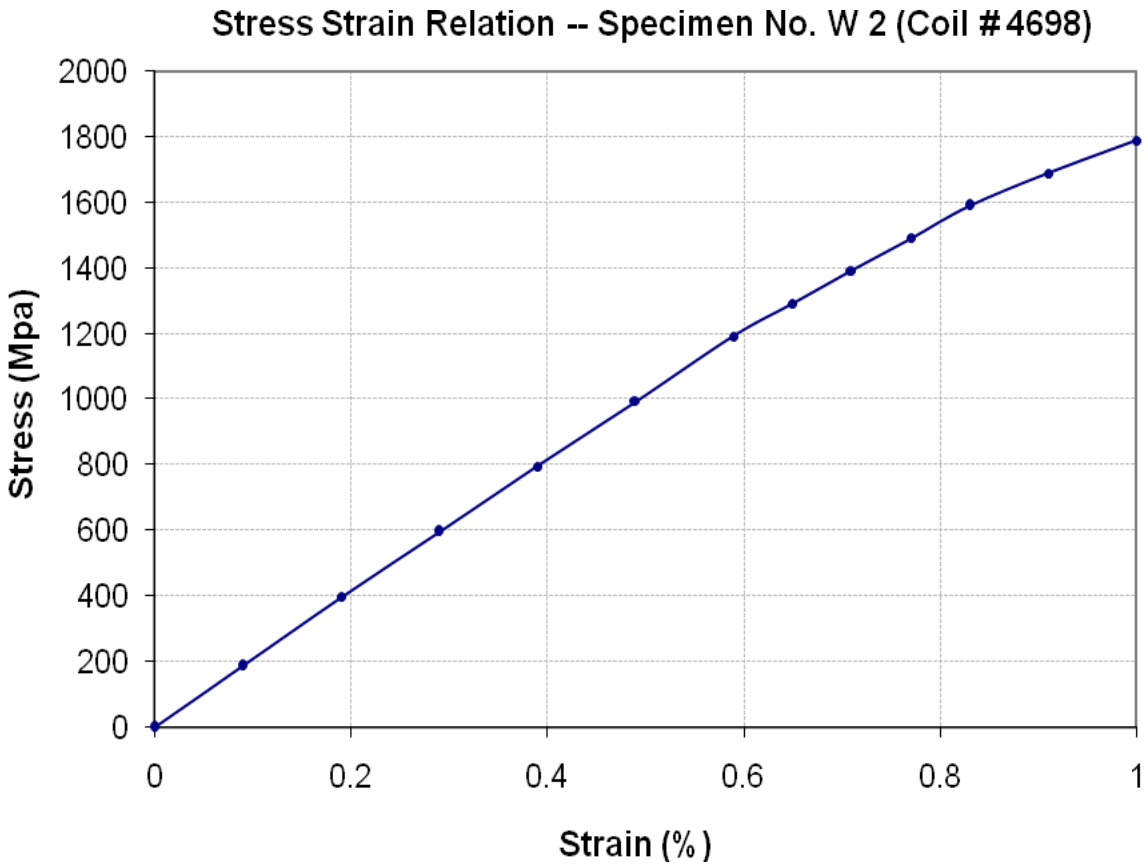
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
NESPAK
Resolving Traffic Congestion Issues at Serena Chowk and Convention Center Chowk, Islamabad. (United Wires)

Reference # CED/TFL **6192** (Dr. Ali Ahmed) Dated: 19-12-2024
Reference of the request letter # SA-527/SUP/103/AA/04/56 Dated: 17-12-2024

Graph (Page – 3/3)



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 Amanah Noor Residence
Wapda Town, Lahore

Reference # CED/TFL **6195** (Dr. Nauman Khurram) Dated: 19-12-2024
Reference of the request letter # Nil Dated: 19-12-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3	0.377	0.11	0.112	3920	5610	78600	77350	112500	110700	1.00	12.5	
2	0.367	3	0.371	0.11	0.108	3720	5680	74600	76050	113900	116200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,

Executive Project Manager
China Civil Engineering Construction Corporation
Pakistan Branch Office
(ICB No. DASU-RAR-01 & DSU KKH-01)

Reference # CED/TFL **6196** (Dr. Safeer Abbas) Dated: 19-12-2024
Reference of the request letter # CCECC/PAK/DASUFFIELD/KKH-01/24-256Dated: 26-11-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2024
Gauge length 2 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A370

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual		
1	4.322	32	32.30	1.25	1.270	86900	100800	153264	150760	177779	174900	10.0	
2	4.309	32	32.26	1.25	1.267	94700	111200	167020	164780	196121	193500	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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,

Engr. Ammad Mohiuddin
Project: 41 Babur Block Bahria Town, Lahore.

Reference # CED/TFL **6197** (Dr. Nauman Khurram) Dated: 19-12-2024
Reference of the request letter # Nil Dated: 19-12-2024

Tension Test Report (Page -1/1)

Date of Test 19-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.362	3	0.368	0.11	0.106	3230	4380	64800	66980	87800	90900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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