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

To,

Manager Procurement.
Amin Brothers Engineers Pak (Pvt.) Ltd. Lahore.
Manufacturing of PCC Poles at Jhang Pole Plant.

Reference # CED/TFL **6668** (Dr. Safeer Abbas) Dated: 06-03-2025
Reference of the request letter # ABEL/UET/2025-08 Dated: 04-03-2025

Tension Test Report (Page -1/1)

Date of Test 18-03-2025
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	438	9800	96.14	11000	107.91	>3.50	xx
2	9.53 (3/8")	430.0	437	9700	95.16	10900	106.93	>3.50	xx
3	11.11 (7/16")	582.0	594	13700	134.40	15100	148.13	>3.50	xx
4	11.11 (7/16")	582.0	594	13200	129.49	14800	145.19	>3.50	xx
Only four samples for Test									

Test Performed and Verified by:

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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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,

Manager Procurement.
Namco Associates (Pvt) Ltd. Lahore.
Manufacturing of PCC Poles at Jahanian Pole Plant.

Reference # CED/TFL **6669** (Dr. Safeer Abbas) Dated: 06-03-2025
Reference of the request letter # NAMCO/WT/UET/2025-10 Dated: 04-03-2025

Tension Test Report (Page -1/1)

Date of Test 18-03-2025
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	438	9500	93.20	11000	107.91	>3.50	xx
2	9.53 (3/8")	430.0	438	9700	95.16	11000	107.91	>3.50	xx
3	11.11 (7/16")	582.0	601	13300	130.47	15100	148.13	>3.50	xx
4	11.11 (7/16")	582.0	594	12000	117.72	14400	141.26	>3.50	xx
Only four samples for Test									

Test Performed and Verified by:

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,

Manager Procurement.
ANN Global (Pvt) Ltd.
Manufacturing of PCC Poles at Sahiwal Pole Plant.

Reference # CED/TFL **6670** (Dr. Safeer Abbas) Dated: 06-03-2025
Reference of the request letter # ANN/WT/UET/2025-20 Dated: 04-03-2025

Tension Test Report (Page -1/1)

Date of Test 18-03-2025
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	438	9000	88.29	10900	106.93	>3.50	xx
2	9.53 (3/8")	430.0	438	8900	87.31	10900	106.93	>3.50	xx
3	11.11 (7/16")	582.0	594	12100	118.70	14600	143.23	>3.50	xx
4	11.11 (7/16")	582.0	598	12000	117.72	14200	139.30	>3.50	xx
Only four samples for Test									

Test Performed and Verified by:

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 Precast Building Systems (Pvt) Ltd.
Tandlianwala.

Reference # CED/TFL **6685** (Dr. Safeer Abbas) Dated: 10-03-2025
Reference of the request letter # P-4/UET/03/2025 Dated: 10-03-2025

Tension Test Report (Page -1/3)

Date of Test 18-03-2025
Gauge length 8 inches
Description Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kN)	(kN)	Actual	Actual	(inch)		
1	0.156	5	5.03	------	19.9	12.60	13.70	634	689	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,

M/S Precast Building Systems (Pvt) Ltd.
Tandlianwala.

Reference # CED/TFL **6685** (Dr. Safeer Abbas) Dated: 10-03-2025
Reference of the request letter # P-4/UET/02/2025 Dated: 10-03-2025

Tension Test Report (Page -2/3)

Date of Test 18-03-2025
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	**11.11 (7/16")**	**582.0**	**581.0**	**13000**	**127.53**	**14500**	**142.25**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample 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,

M/S Precast Building Systems (Pvt) Ltd.
Tandlianwala.

Reference # CED/TFL **6685** (Dr. Safeer Abbas) Dated: 10-03-2025
Reference of the request letter # P-4/UET/01/2025 Dated: 10-03-2025

Tension Test Report (Page -3/3)

Date of Test 18-03-2025
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**	**434.0**	**9300**	**91.23**	**10400**	**102.02**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample 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,

M/S Bliss Construction (Pvt.) Ltd.
Lahore.

Reference # CED/TFL **6698** (Dr. Safeer Abbas) Dated: 12-03-2025
Reference of the request letter # BCPL/PCSL/MT-001/2025 Dated: 10-03-2025

Tension Test Report (Page -1/2)

Date of Test 18-03-2025
Gauge length 8 inches
Description Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kN)	(kN)	Actual	Actual	(inch)		
1	0.152	5	4.97	------	19.4	------	10.70	------	553	0.40	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

Test Performed and Verified by:

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 Bliss Construction (Pvt.) Ltd.
Lahore.

Reference # CED/TFL **6698** (Dr. Safeer Abbas) Dated: 12-03-2025
Reference of the request letter # BCPL/PCSL/MT-001/2025 Dated: 10-03-2025

Tension Test Report (Page -2/2)

Date of Test 18-03-2025
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	**11.11 (7/16")**	**582.0**	**581.0**	**12800**	**125.57**	**14500**	**142.25**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

Test Performed and Verified by:

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 Pvt. Ltd.
Construction of Rawalpindi Ring Road (RRR) (38.30 KM) Main Carriageway (MCW)
From Bannth (N-5) to Thalian (M-2)

Reference # CED/TFL **6708** (Dr. Safeer Abbas) Dated: 14-03-2025
Reference of the request letter # 4713/RRR/IUK/25/194 Dated: 11-03-2025

Tension Test Report (Page -1/4)

Date of Test 18-03-2025
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**	**785.0**	**18000**	**176.58**	**19500**	**191.30**	**199**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**781.0**	**18100**	**177.56**	**19400**	**190.31**	**199**	**>3.50**	**xx**
3	**12.70 (1/2")**	**780.0**	**784.0**	**17700**	**173.64**	**19500**	**191.30**	**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

Test Performed and Verified by:

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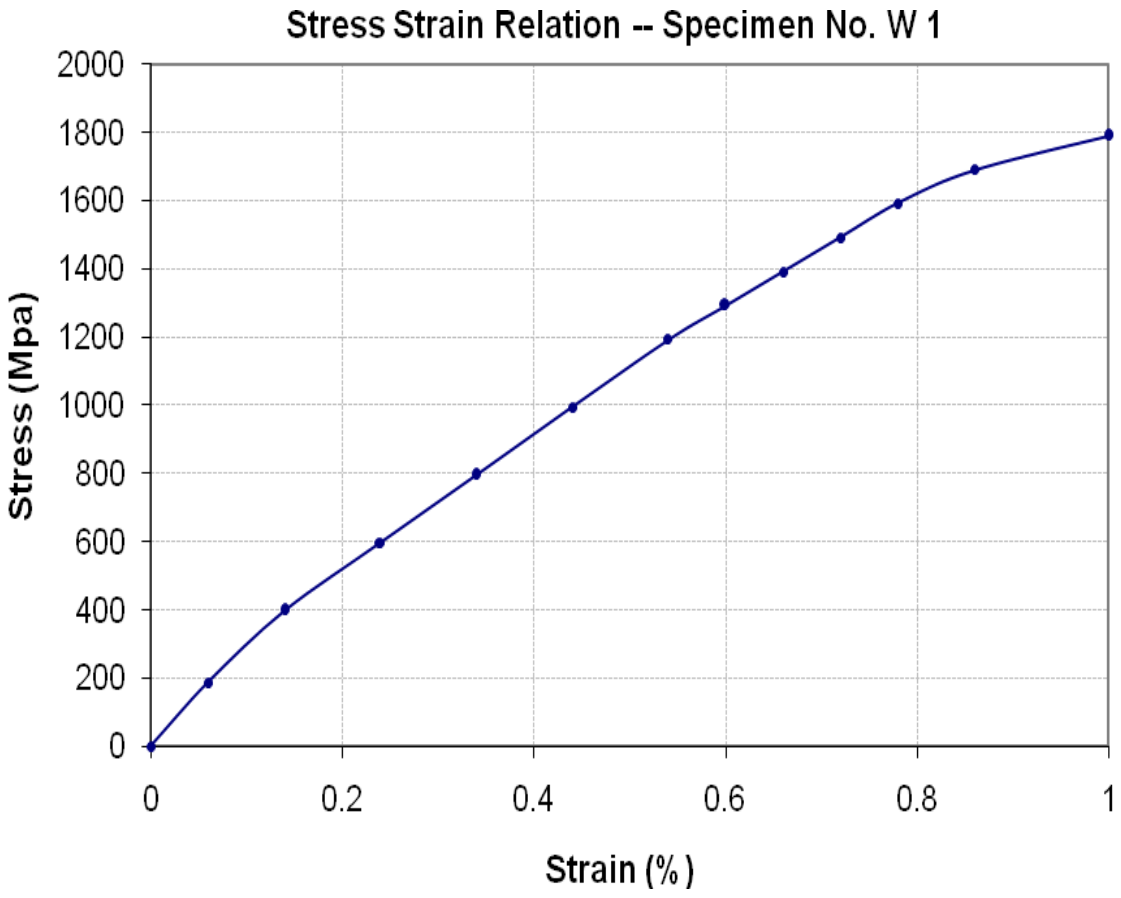
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer, NESPAK Pvt. Ltd.
Construction of Rawalpindi Ring Road (RRR) (38.30 KM) Main Carriageway (MCW)
From Bannth (N-5) to Thalian (M-2)

Reference # CED/TFL **6708** (Dr. Safeer Abbas) Dated: 14-03-2025
Reference of the request letter # 4713/RRR/IUK/25/194 Dated: 11-03-2025

Graph (Page – 2/4)



Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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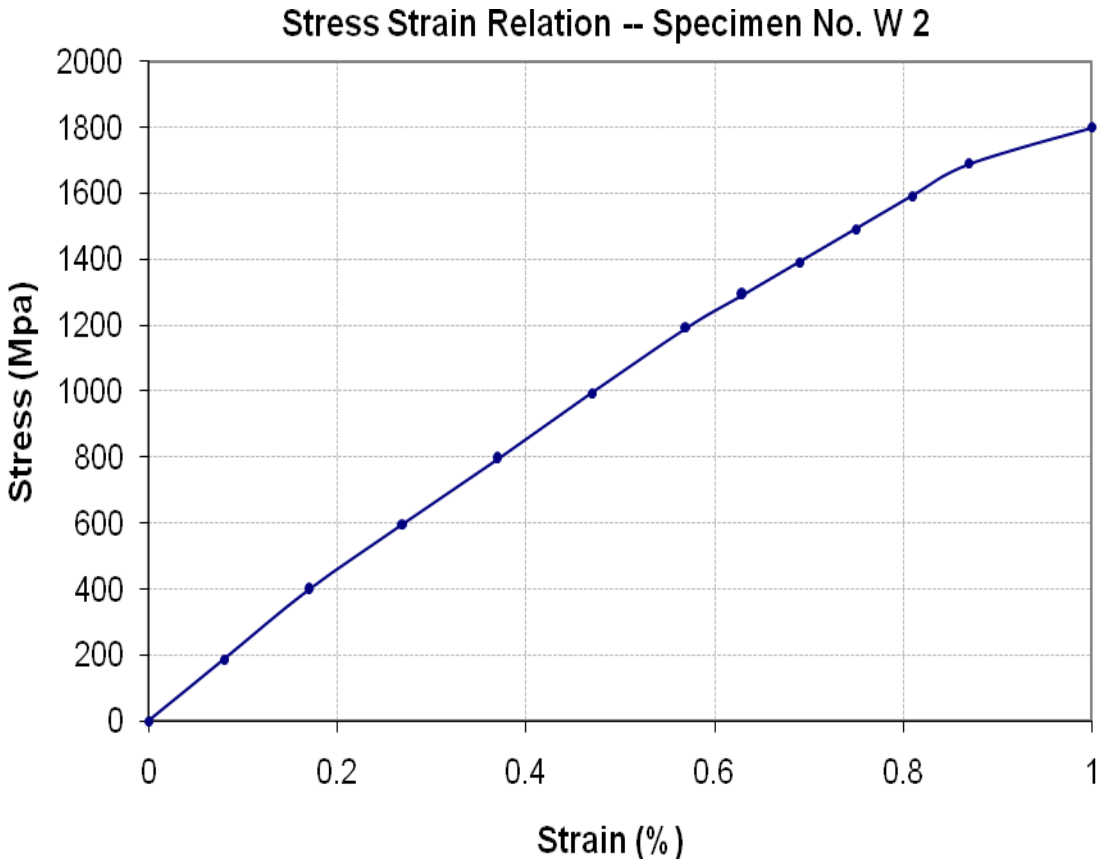
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer, NESPAK Pvt. Ltd.
Construction of Rawalpindi Ring Road (RRR) (38.30 KM) Main Carriageway (MCW)
From Bannth (N-5) to Thalian (M-2)

Reference # CED/TFL **6708** (Dr. Safeer Abbas) Dated: 14-03-2025
Reference of the request letter # 4713/RRR/IUK/25/194 Dated: 11-03-2025

Graph (Page – 3/4)



Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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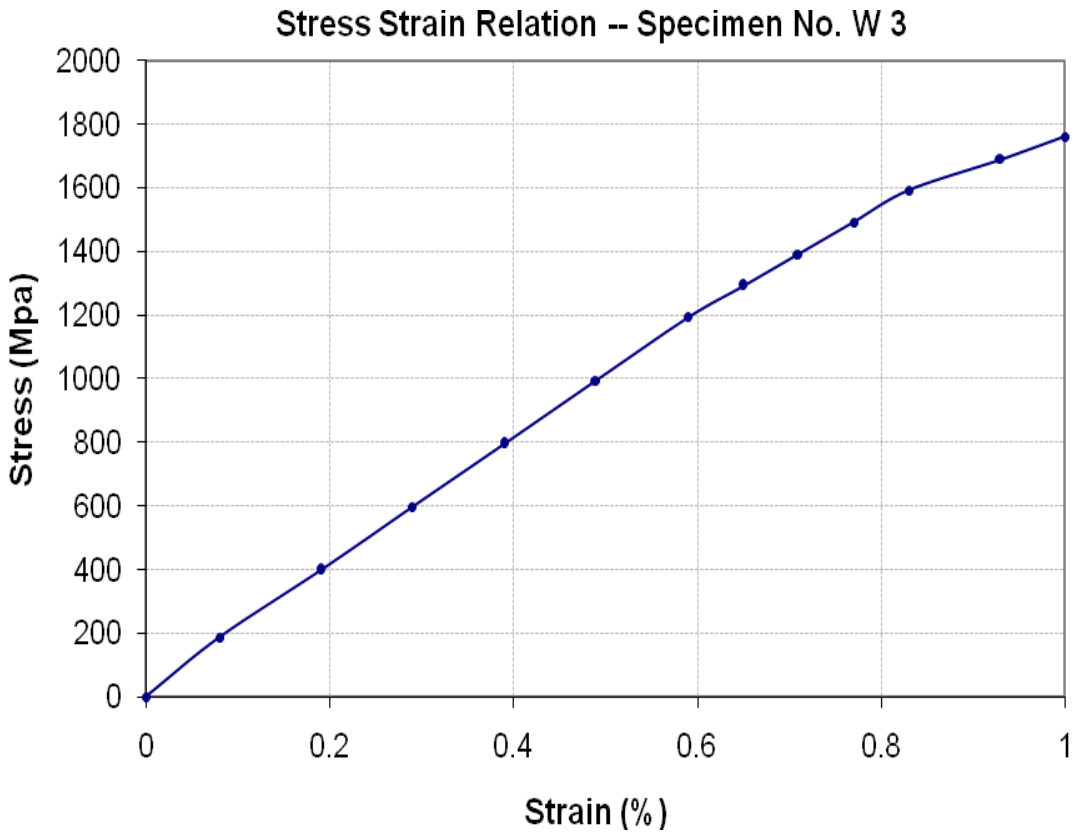
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer, NESPAK Pvt. Ltd.
Construction of Rawalpindi Ring Road (RRR) (38.30 KM) Main Carriageway (MCW)
From Bannth (N-5) to Thalian (M-2)

Reference # CED/TFL **6708** (Dr. Safeer Abbas) Dated: 14-03-2025
Reference of the request letter # 4713/RRR/IUK/25/194 Dated: 11-03-2025

Graph (Page – 4/4)



Test Performed and Verified by:

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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,

Modern Wire & Cable Industries (Pvt.) Ltd.

Reference # CED/TFL **6719** (Dr. Safeer Abbas) Dated: 17-03-2025
Reference of the request letter # Nil Dated: 17-03-2025

Tension Test Report (Page -1/4)

Date of Test 18-03-2025
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	**15.24 (0.6")**	**1102.0**	**1116**	**25000**	**245.25**	**27500**	**269.78**	**198**	**>3.50**	**Coil # 111**
2	**15.24 (0.6")**	**1102.0**	**1116**	**25300**	**248.19**	**27700**	**271.74**	**199**	**>3.50**	**Coil # 115**
3	**15.24 (0.6")**	**1102.0**	**1120**	**24500**	**240.35**	**27600**	**270.76**	**199**	**>3.50**	**Coil # 116**
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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

Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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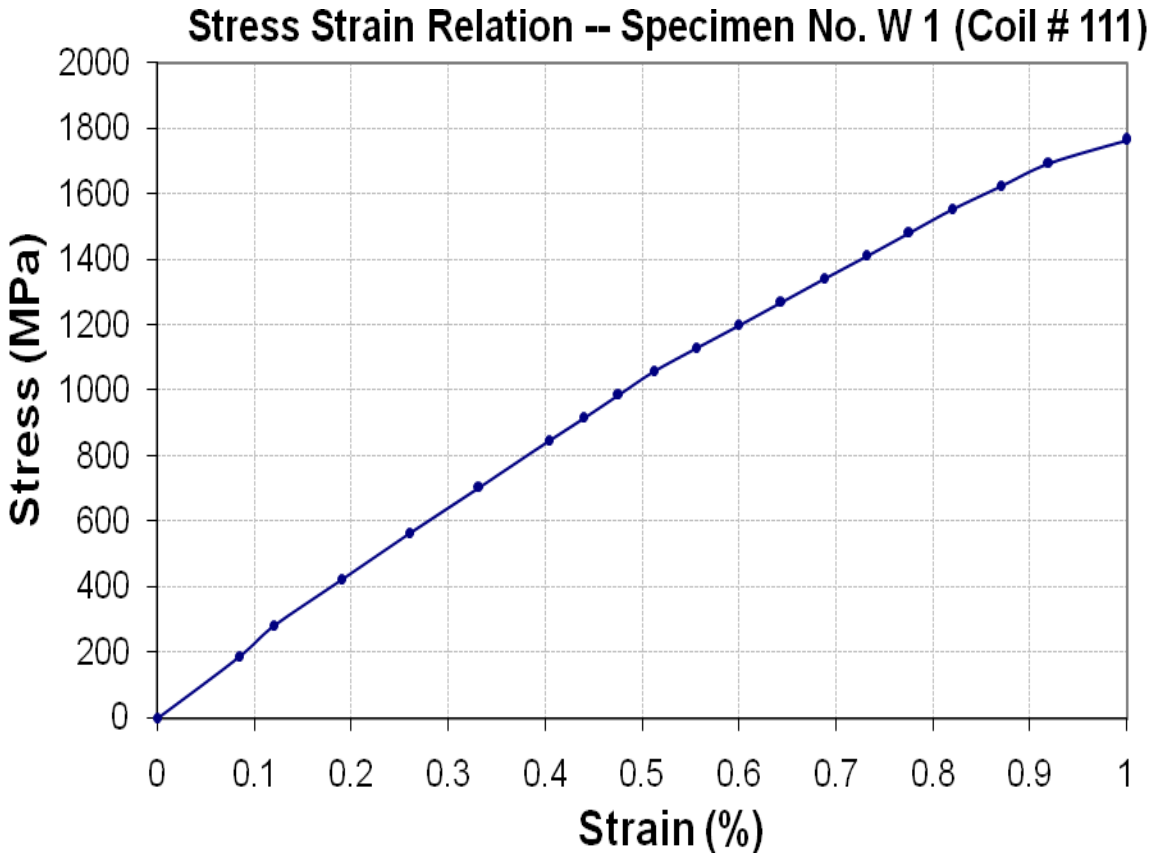
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Modern Wire & Cable Industries (Pvt.) Ltd.

Reference # CED/TFL **6719** (Dr. Safeer Abbas) Dated: 17-03-2025
Reference of the request letter # Nil Dated: 17-03-2025

Graph (Page – 2/4)



Test Performed and Verified by:

I/C Testing Laboratoires
UET Lahore, Pakistan.

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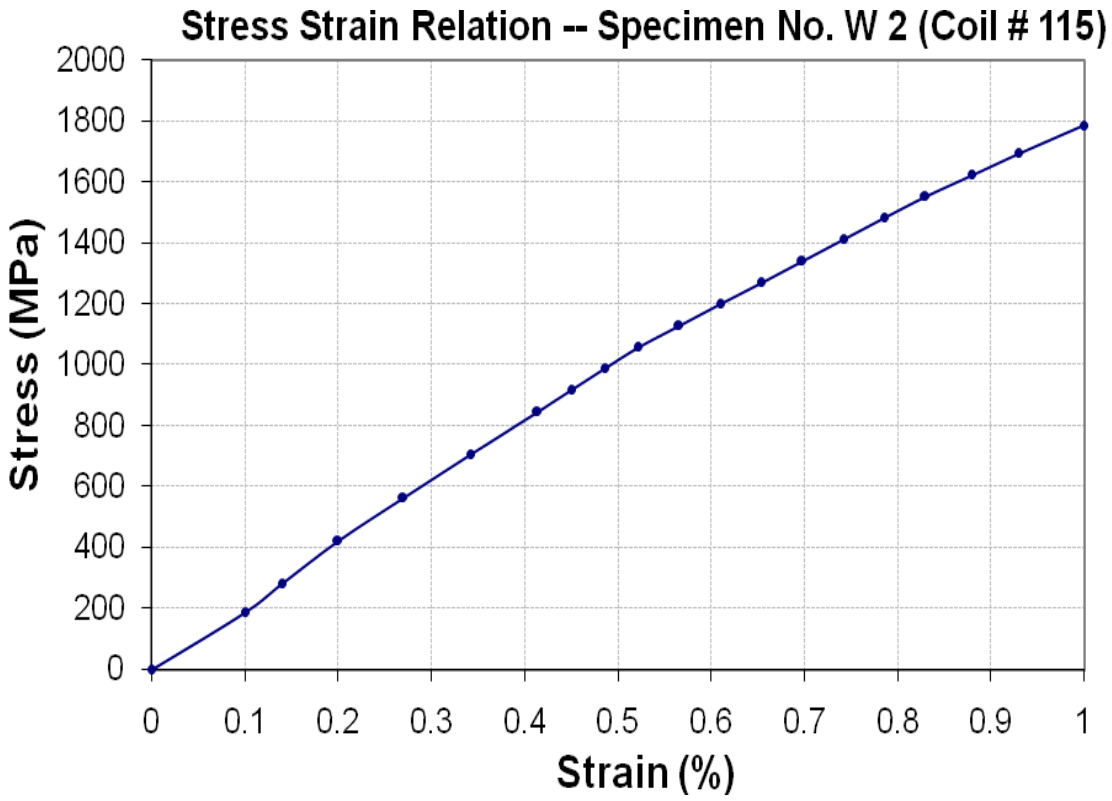
STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Modern Wire & Cable Industries (Pvt.) Ltd.

Reference # CED/TFL **6719** (Dr. Safeer Abbas) Dated: 17-03-2025
Reference of the request letter # Nil Dated: 17-03-2025

Graph (Page – 3/4)



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University of Engineering and Technology Lahore, 54890
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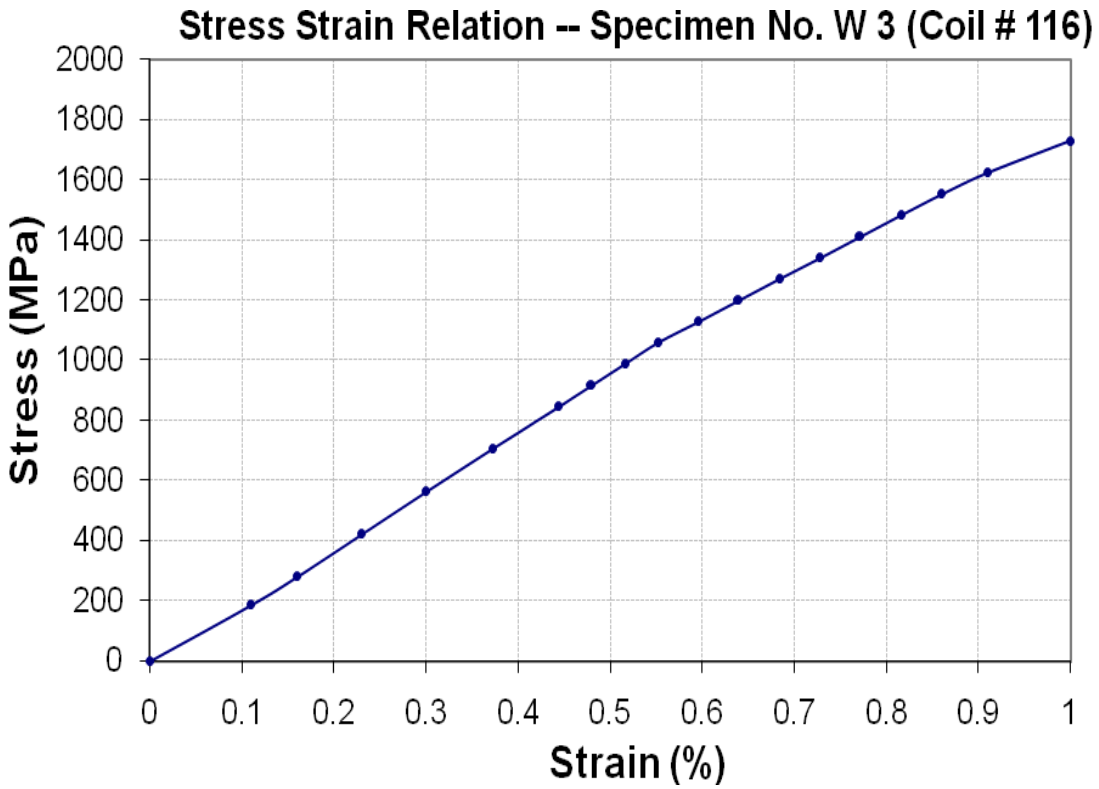
To,

Modern Wire & Cable Industries (Pvt.) Ltd.

Reference # CED/TFL **6719** (Dr. Safeer Abbas) Dated: 17-03-2025
Reference of the request letter # Nil Dated: 17-03-2025

Graph (Page – 4/4)



Test Performed and Verified by:

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,

Material Engineer
New Metro City, Lahore
BSM Developers

Reference # CED/TFL **6722** (Dr. Safeer Abbas) Dated: 17-03-2025
Reference of the request letter# NMC/LHR/LAB/10 Dated: 17-03-2025

Tension Test Report (Page -1/1)

Date of Test 18-03-2025
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615
Batala Gold Steel

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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.363	3	0.369	0.11	0.107	32.50	48.20	66400	68340	98500	101400	1.10	13.8	
2	0.355	3	0.364	0.11	0.104	31.50	46.70	64400	67880	95400	100700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.

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,

Resident Engineer
Al-Imam Enterprises Pvt. Ltd.
One Central Vista Project, Lahore.

Reference # CED/TFL **6725** (Dr. Asad Ali) Dated: 18-03-2025
Reference of the request letter # Al-Imam/OCPL-LHR/WMG/UnE-30 Dated: 17-03-2025

Tension Test Report (Page -1/1)

Date of Test 18-03-2025
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	0.361	10	9.34	0.12	0.106	3330	4940	61178	69110	90756	102600	1.10	13.8	Ittefaq Steel
2	0.365	10	9.39	0.12	0.107	3360	4980	61729	68970	91491	102300	1.20	15.0	
3	0.379	10	9.56	0.12	0.111	3440	5170	63199	68100	94982	102400	1.10	13.8	Aziz Steel
4	0.379	10	9.57	0.12	0.111	3360	5100	61729	66490	93696	101000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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