Ref: CED/TFL/04/6837 Dated: 18-04-2025

Dated of Test: 02-05-2025

To

Khurram Tariq
Resident Engineer, NESPAK (Pvt.) Ltd.
Construction of Underpass at GPO Chowk & TM Chowk on Mall Road Including Pedestrian Underpass Near AFIC, District Rawalpindi.

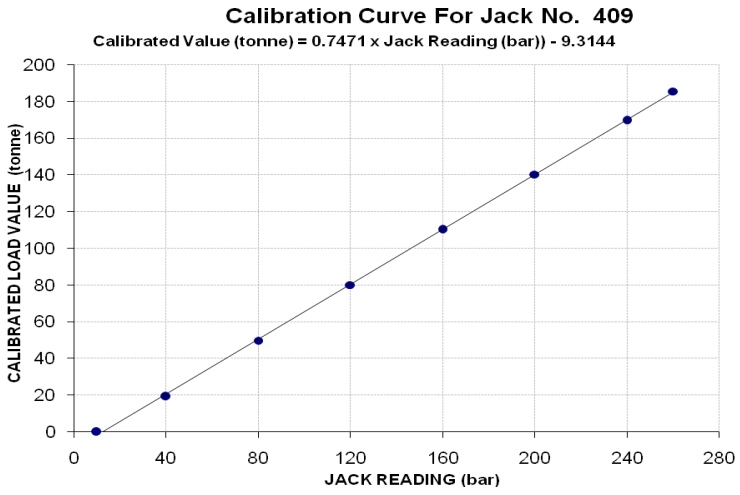
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/6837)** (Page -1/2)

Reference to your Letter No. 4085/103/KTGPO/01/28, dated: 17/04/2025 on the subject cited above. One Hydraulic Jack (Jack No. 409, Gauge No. SF-409) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)		**10**	**40**	**80**	**120**	**160**	**200**	**240**	**260**
Calibrated Load	**(kg)**	**0**	**19200**	**49800**	**80000**	**110200**	**140400**	**169600**	**185600**
	(tonne)	**0**	**19.20**	**49.80**	**80.00**	**110.20**	**140.40**	**169.60**	**185.60**
Calibrated Pressure (bar)		**0**	**25.65**	**66.54**	**106.89**	**147.24**	**187.60**	**226.61**	**247.99**

The Ram Area of Jack = 733.975 cm^2



Test Performed and Verified by:

Ref: CED/TFL/04/6837 Dated: 18-04-2025

Dated of Test: 02-05-2025

To

Khurram Tariq
Resident Engineer, NESPAK (Pvt.) Ltd.
Construction of Underpass at GPO Chowk & TM Chowk on Mall Road Including Pedestrian Underpass Near AFIC, District Rawalpindi.

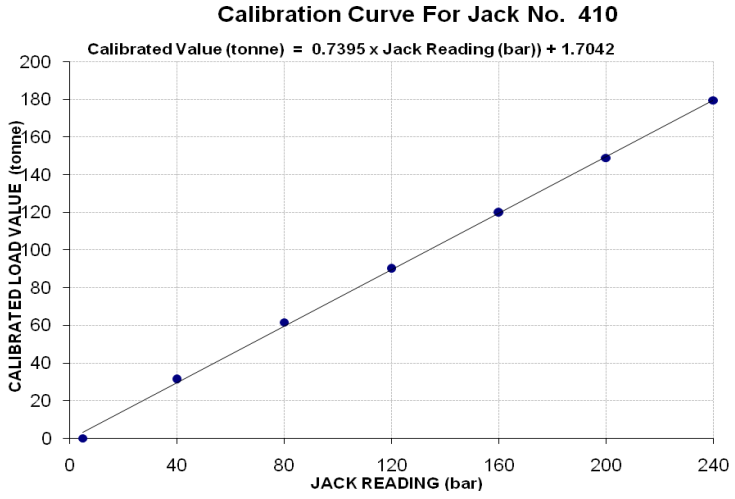
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/6837)** (Page -2/2)

Reference to your Letter No. 4085/103/KTGPO/01/28, dated: 17/04/2025 on the subject cited above. One Hydraulic Jack (Jack No. 410, Gauge No. SF-410) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)		**5**	**40**	**80**	**120**	**160**	**200**	**240**	**260**
Calibrated Load	**(kg)**	**0**	**31200**	**61600**	**90000**	**119800**	**149000**	**179600**	**194200**
	(tonne)	**0**	**31.20**	**61.60**	**90.00**	**119.80**	**149.40**	**179.60**	**194.20**
Calibrated Pressure (bar)		**0**	**41.69**	**82.31**	**120.25**	**160.07**	**199.09**	**239.97**	**259.58**

The Ram Area of Jack = 733.975 cm^2



Test Performed and Verified by:

To,

Mr. Shahbaz Khan (Resident Engineer),
EA Consulting Pvt. Ltd.
Construction of Peshawar Northern Bypass Package-3B.

Reference # CED/TFL **6858** (Dr. M. Kashif) Dated: 23-04-2025
Reference of the request letter # PNBP/EA/RE-2/25/97 Dated: 16-04-2025

Tension Test Report (Page -1/6)

Date of Test 02-05-2025
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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	GPa		
1	**12.70 (1/2")**	**780.0**	**786.0**	**18600**	**182.47**	**19900**	**195.22**	**199**	**>3.50**	**xx**
2	**12.70 (1/2")**	**780.0**	**783.0**	**18500**	**181.49**	**19900**	**195.22**	**199**	**>3.50**	**xx**
3	**12.70 (1/2")**	**780.0**	**787.0**	**18500**	**181.49**	**19800**	**194.24**	**198**	**>3.50**	**xx**
4	**12.70 (1/2")**	**780.0**	**784.0**	**18000**	**176.58**	**19900**	**195.22**	**199**	**>3.50**	**xx**
5	**12.70 (1/2")**	**780.0**	**787.0**	**18000**	**176.58**	**19800**	**194.24**	**198**	**>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

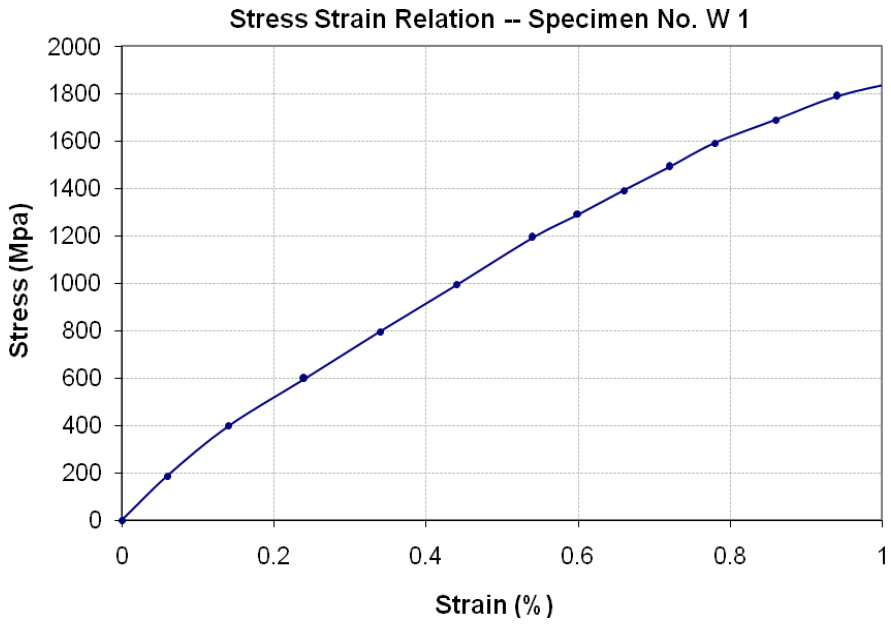
Test Performed and Verified by:

To,

Mr. Shahbaz Khan (Resident Engineer),
EA Consulting Pvt. Ltd.
Construction of Peshawar Northern Bypass Package-3B.

Reference # CED/TFL **6858** (Dr. M. Kashif) Dated: 23-04-2025
Reference of the request letter # PNBP/EA/RE-2/25/97 Dated: 16-04-2025

Graph (Page – 2/6)



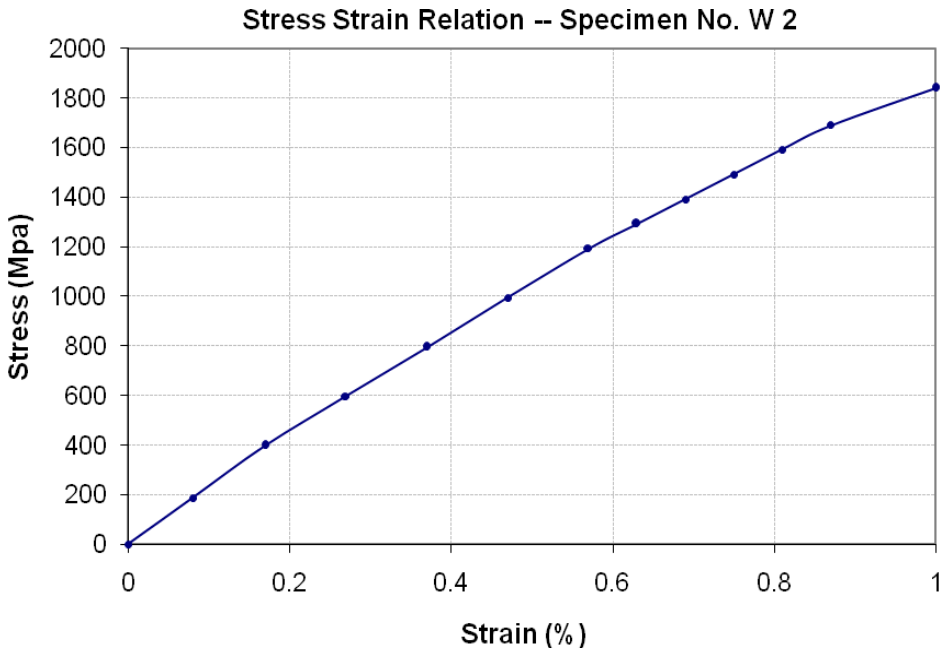
Test Performed and Verified by:

To,

Mr. Shahbaz Khan (Resident Engineer),
EA Consulting Pvt. Ltd.
Construction of Peshawar Northern Bypass Package-3B.

Reference # CED/TFL **6858** (Dr. M. Kashif) Dated: 23-04-2025
Reference of the request letter # PNBP/EA/RE-2/25/97 Dated: 16-04-2025

Graph (Page – 3/6)



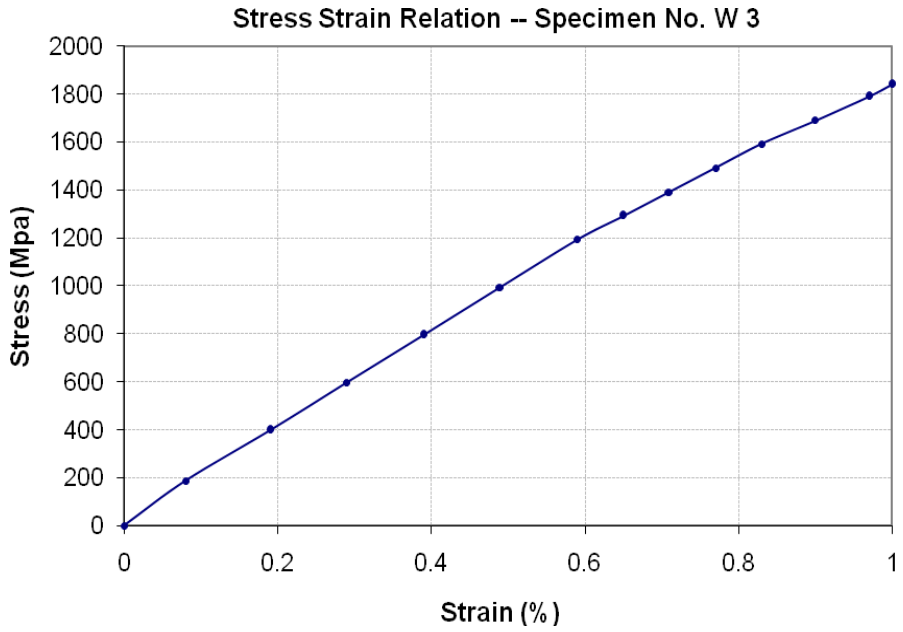
Test Performed and Verified by:

To,

Mr. Shahbaz Khan (Resident Engineer),
EA Consulting Pvt. Ltd.
Construction of Peshawar Northern Bypass Package-3B.

Reference # CED/TFL **6858** (Dr. M. Kashif) Dated: 23-04-2025
Reference of the request letter # PNBP/EA/RE-2/25/97 Dated: 16-04-2025

Graph (Page – 4/6)



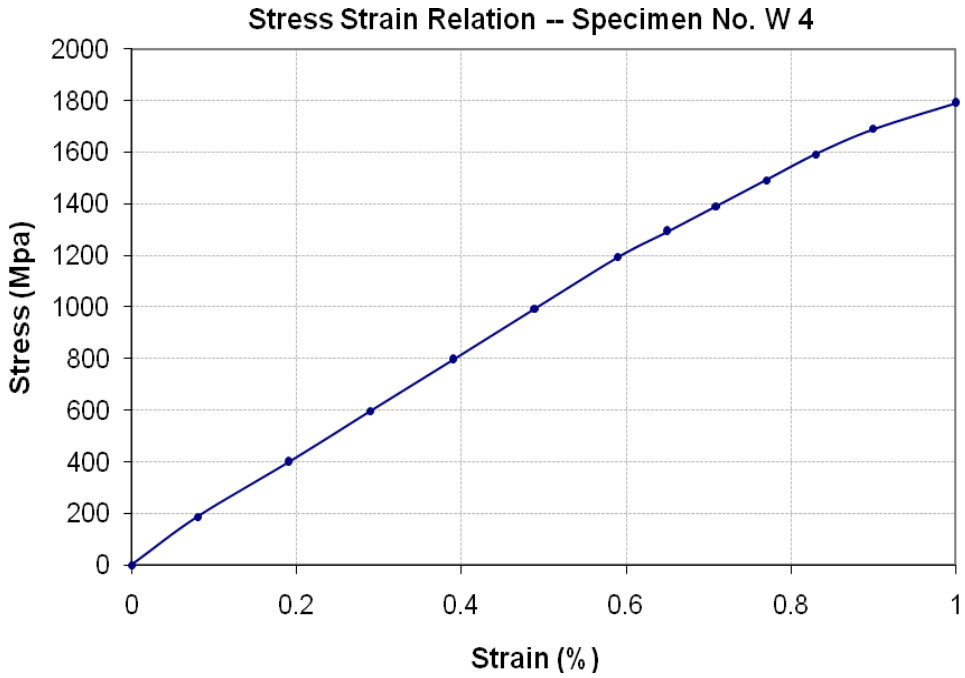
Test Performed and Verified by:

To,

Mr. Shahbaz Khan (Resident Engineer),
EA Consulting Pvt. Ltd.
Construction of Peshawar Northern Bypass Package-3B.

Reference # CED/TFL **6858** (Dr. M. Kashif) Dated: 23-04-2025
Reference of the request letter # PNBP/EA/RE-2/25/97 Dated: 16-04-2025

Graph (Page – 5/6)



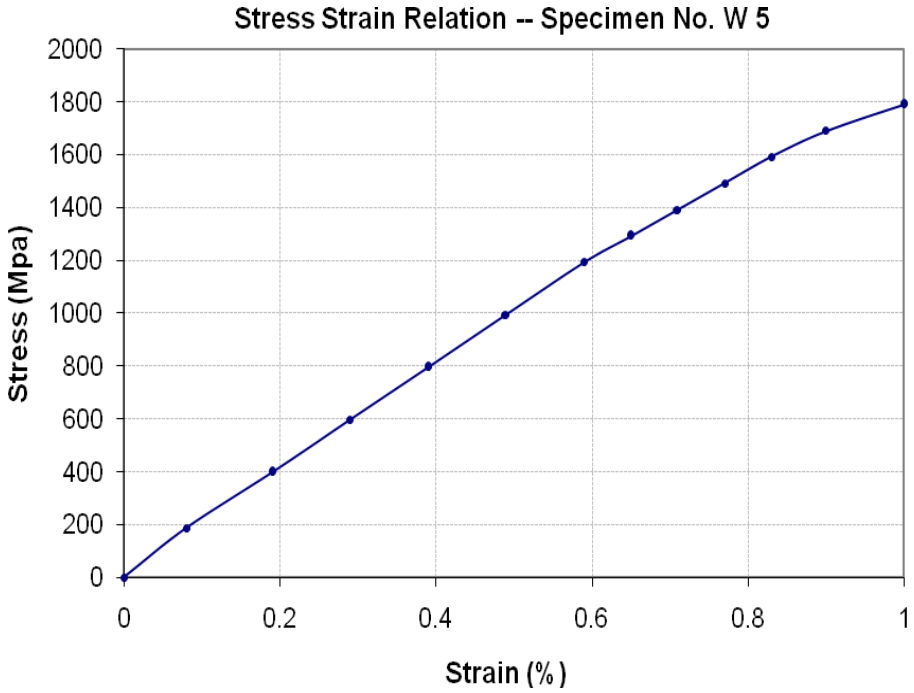
Test Performed and Verified by:

To,

Mr. Shahbaz Khan (Resident Engineer),
EA Consulting Pvt. Ltd.
Construction of Peshawar Northern Bypass Package-3B.

Reference # CED/TFL **6858** (Dr. M. Kashif) Dated: 23-04-2025
Reference of the request letter # PNBP/EA/RE-2/25/97 Dated: 16-04-2025

Graph (Page – 6/6)



Test Performed and Verified by:

To,
Sub Divisional Officer (Civil),
Civil Works Sub Division,
FESCO, Faisalabad.

Reference # CED/TFL **6870** (Dr. M. Kashif) Dated: 24-04-2025
Reference of the request letter # 50 Dated: 24-04-2025

Tension Test Report (Page -1/2)

Date of Test 02-05-2025
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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**430.0**	**447.0**	**9200**	**90.25**	**10300**	**101.04**	**>3.50**	**xx**
2	**11.11 (7/16")**	**582.0**	**584.0**	**13000**	**127.53**	**15800**	**155.00**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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

Test Performed and Verified by:

To,

Project Manager
Mian Builders & Contractors
Plot No.103 Fortress Square Mall Cantt.

Reference # CED/TFL **6876** (Dr. M Kashif) Dated: 25-04-2025
Reference of the request letter # Nil Dated: 22-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.110	0.11	35.50	46.50	72523	72555	94995	95037	1.4	17.5	FF Steel
2	0.378	3	0.376	0.110	0.111	35.00	47.00	71502	70897	96016	95205	1.3	16.3	FF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Mohsin Abbas (QAQC Manager)
Zameen Development
Construction of Downtown Rumanza at Plot # RC01, Sector Rumanza, DHA Multan Pakistan
(Heat # 55)

Reference # CED/TFL **6898** Dr. Syed Asad Ali Gillani Dated: 30-04-2025
Reference of the request letter # ZD/QAQC/DTR/SS-2504-000129/07 Dated: 30-04-2025

Tension Test Report

(Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.110	0.11	33.70	52.00	68846	68969	106231	106422	1.1	13.8	Heat# 55
2	0.379	3	0.377	0.110	0.112	33.70	52.70	68846	67913	107661	106202	0.9	11.3	Heat# --
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Muhammad Ahmad Jamil (Project Manager The Oasis Grand 14)
Landmark Developers
The Oasis Grand 14

Reference # CED/TFL **6889** (Dr. M Kashif) Dated: 29-04-2025
Reference of the request letter # 005/14/25 Dated: 28-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.381**	**3**	**0.378**	**0.110**	**0.112**	**38.20**	**55.20**	**78039**	**76672**	**112768**	**110793**	**1.0**	**12.5**	-
2	**0.378**	**3**	**0.376**	**0.110**	**0.111**	**37.70**	**55.00**	**77017**	**76177**	**112360**	**111134**	**1.0**	**12.5**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Muhammad Ahmad Jamil (Project Manager Grand Height X)
Landmark Developers
Grand Height X

Reference # CED/TFL **6890** (Dr. M Kashif) Dated: 29-04-2025
Reference of the request letter # 004/13/25 Dated: 28-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.362**	**3**	**0.368**	**0.110**	**0.106**	**30.50**	**46.70**	**62308**	**64365**	**95403**	**98552**	**1.1**	**13.8**	-
2	**0.363**	**3**	**0.369**	**0.110**	**0.107**	**31.20**	**46.50**	**63739**	**65642**	**94995**	**97832**	**1.4**	**17.5**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Muhammad Rashid (Project Manager)
ZSK Associates
Swiss Mall MM Alam Road Gulberg-III, Lahore

Reference # CED/TFL **6891** (Dr. M Kashif) Dated: 29-04-2025
Reference of the request letter # Nil Dated: 28-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (mm)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.373**	**10**	**0.373**	**0.120**	**0.11**	**32.00**	**50.20**	**59925**	**65660**	**94007**	**103005**	**1.1**	**13.8**	-
2	**0.381**	**10**	**0.377**	**0.120**	**0.112**	**33.70**	**51.50**	**63109**	**67718**	**96442**	**103486**	**1.1**	**13.8**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Abdul Basset (Material Engineer BMC)
Banu Mukhtar Contracting (Pvt.) Ltd.
Burj-1 by AJWA Builders

Reference # CED/TFL **6893** (Dr. M Kashif) Dated: 29-04-2025
Reference of the request letter # DOC-BMC/AJWA/159 Dated: 29-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.378**	**3**	**0.376**	**0.110**	**0.111**	**36.00**	**48.50**	**73544**	**72769**	**99081**	**98036**	**1.2**	**15.0**	-
2	**0.380**	**3**	**0.377**	**0.110**	**0.112**	**37.00**	**49.50**	**75587**	**74451**	**101124**	**99603**	**1.2**	**15.0**	**-**
3	**0.376**	**3**	**0.375**	**0.110**	**0.111**	**35.5**	**48**	**72523**	**72154**	**98059**	**97560**	**1.1**	**13.8**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 3 Samples for Tensile and 1 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Rana Muhammad Haris (Chief Material Engineer RHC)
Rehman Habib Consultants Pvt. Ltd.
Construction/Renovation of 17 Centers of Excellences (COES) in Existing TEVTA & PVTC Institutes in Province (Sheikhoo Steel)

Reference # CED/TFL **6894** (Dr. M Kashif) Dated: 29-04-2025
Reference of the request letter # RHC/134-TEVTA1-2404/RMC/01/28 Dated: 22-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.366**	**3**	**0.370**	**0.110**	**0.107**	**34.70**	**47.70**	**70889**	**72565**	**97446**	**99750**	**1.4**	**17.5**	-
2	**0.366**	**3**	**0.370**	**0.110**	**0.107**	**35.00**	**48.20**	**71502**	**73172**	**98468**	**100769**	**1.4**	**17.5**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

Punjab

To,

Mr. Ghulam Rasool Domki (Resident Engineer),
NESPAK (Pvt.) Ltd.
Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in District Gujrat.

Reference # CED/TFL **6895** (Dr. M. Kashif) Dated: 29-04-2025
Reference of the request letter # 4376/GF/GRD/09 Dated: 28-04-2025

Tension Test Report (Page -1/3)

Date of Test 02-05-2025
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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	GPa		
1	**12.70 (1/2")**	**780.0**	**785.0**	**17900**	**175.60**	**19700**	**193.26**	**198**	**>3.50**	**W1**
2	**12.70 (1/2")**	**780.0**	**785.0**	**-**	**-**	**17900**	**175.60**	**-**	**<3.50 Not Ok**	**W2**
3	**12.70 (1/2")**	**780.0**	**785.0**	**18000**	**176.58**	**19500**	**191.30**	**199**	**>3.50**	**W3**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	
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

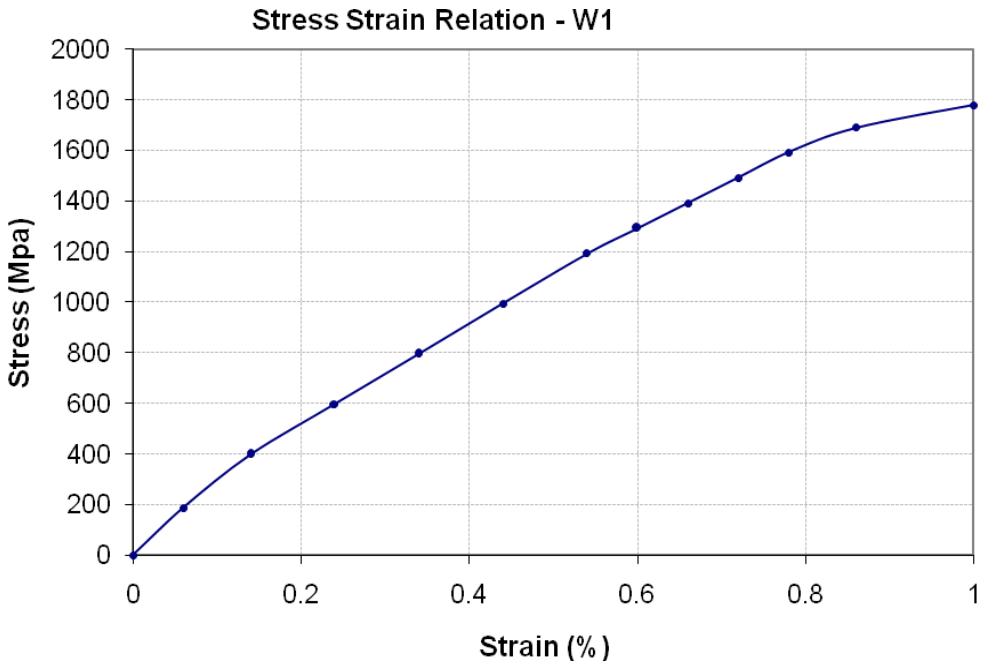
Test Performed and Verified by:

To,

Mr. Ghulam Rasool Domki (Resident Engineer),
NESPAK (Pvt.) Ltd.
Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in District Gujrat.

Reference # CED/TFL **6895** (Dr. M. Kashif) Dated: 29-04-2025
Reference of the request letter # 4376/GF/GRD/09 Dated: 28-04-2025

Graph (Page – 2/3)



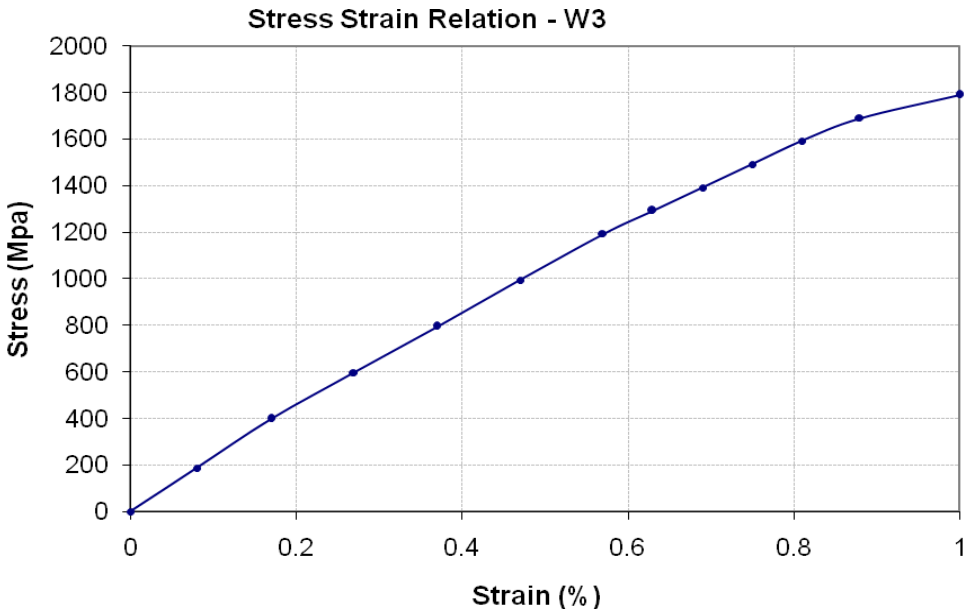
Test Performed and Verified by:

To,

Mr. Ghulam Rasool Domki (Resident Engineer),
NESPAK (Pvt.) Ltd.
Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in District Gujrat.

Reference # CED/TFL **6895** (Dr. M. Kashif) Dated: 29-04-2025
Reference of the request letter # 4376/GF/GRD/09 Dated: 28-04-2025

Graph (Page – 3/3)



Test Performed and Verified by:

To,

Mr. Ameer Hamza Anjum (SQN LDR)
GE (AIR) Lahore
Rehabilitation / Uplifting of No.2 SDH (1st Floor) at PAF Base Lahore CA No. CEAF-DE-39/2025

Reference # CED/TFL **6896** (Dr. M Kashif) Dated: 29-04-2025
Reference of the request letter # 600-Gen/88/E-6 Dated: 25-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.371**	**3**	**0.372**	**0.110**	**0.109**	**33.20**	**45.20**	**67824**	**68480**	**92339**	**93231**	**1.5**	**18.8**	**3"/8**
2	**0.367**	**3**	**0.371**	**0.110**	**0.108**	**31.50**	**44.50**	**64351**	**65570**	**90909**	**92630**	**1.2**	**15.0**	**3"/8**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Mr. Ishtiaq Ahmad
Precast Building Systems (Pvt.) Ltd.

Reference # CED/TFL **6897** (Dr. M. Kashif) Dated: 30-04-2025
Reference of the request letter # P-4/UET/01/2025 Dated: 30-04-2025

Tension Test Report (Page -1/1)

Date of Test 02-05-2025
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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**430.0**	**447.0**	**-**	**-**	**8500**	**83.39**	**<3.50 Not Ok**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one 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:

To,

Mr. Muhammad Mohsin (Resident Engineer)
NESPAK Pvt. Ltd.
Tender No. P&S/25.01/5655-Storm Water Drainage System From Sham Nagar to River Ravi (Package-II)

Reference # CED/TFL **6899** (Dr. M Kashif) Dated: 30-04-2025
Reference of the request letter # 3882/11/MM/01/468 Dated: 22-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.369**	**3**	**0.372**	**0.110**	**0.108**	**32.50**	**47.50**	**66394**	**67377**	**97038**	**98475**	**0.9**	**11.3**	**Aziz Steel**
2	**0.373**	**3**	**0.373**	**0.110**	**0.109**	**33.70**	**48.20**	**68846**	**69187**	**98468**	**98956**	**1.1**	**13.8**	**Aziz**
3	**0.391**	**3**	**0.382**	**0.110**	**0.115**	**35**	**50**	**71502**	**68449**	**102145**	**97785**	**1.1**	**13.8**	**Aziz**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 3 Samples for Tensile and 1 Samples for Bend test

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Engr. Aziz Ur Rehman (ER/Assistant Resident Engineer)
ACE Architectural & Town Planning Services Ltd.
(AK Supreme Steel)

Reference # CED/TFL **6900** (Dr. M Kashif) Dated: 30-04-2025
Reference of the request letter # NZEB/ACE/LAB/2025/40 Dated: 30-04-2025

Tension Test Report (Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.367**	**3**	**0.371**	**0.110**	**0.108**	**44.70**	**52.00**	**91318**	**93080**	**106231**	**108281**	**0.9**	**11.3**	-
2	**0.369**	**3**	**0.372**	**0.110**	**0.108**	**40.50**	**48.70**	**82737**	**83904**	**99489**	**100891**	**1.0**	**12.5**	**-**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Sub Divisionl Officer
Buildings Sub Division No.1, Gujranwala
Construction of Building of Government Primary School for Special Educational Needs and Disabilities, Aroop Town District Gujranawla (ADP No. 125 for the 2024-25)

Reference # CED/TFL **6901** (Dr. M Kashif) Dated: 30-04-2025
Reference of the request letter # 1175/G-19 Dated: 22-04-2025

Tension Test Report

(Page-1/1)

Date of Test 02-05-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	3	0.372	0.110	0.109	33.00	48.50	67416	68298	99081	100377	1.4	17.5	3"/8
2	0.373	3	0.374	0.110	0.11	33.20	48.70	67824	68080	99489	99864	1.3	16.3	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
Sub Divisional Officer (Civil),
Civil Works Sub Division,
FESCO, Faisalabad.

Reference # CED/TFL **6902** (Dr. M. Kashif) Dated: 30-04-2025
Reference of the request letter # 2440-41 Dated: 29-04-2025

Tension Test Report (Page -1/2)

Date of Test 02-05-2025
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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**430.0**	**439.0**	**9100**	**89.27**	**10100**	**99.08**	**>3.50**	**xx**
2	**11.11 (7/16")**	**582.0**	**608.0**	**13000**	**127.53**	**15000**	**147.15**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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

Test Performed and Verified by:

To,
Sub Divisional Officer
Public Health Engg : Sub Division, Darya Khan.
Provision of Sewerage & Drainage in Darya Khan City and Union Council Kotla Jam Tehsil Darya Khan District Bhakkar.

Reference # CED/TFL **6904** (Dr. M. Kashif) Dated: 30-04-2025
Reference of the request letter # 58/DK Dated: 19-04-2025

Tension Test Report (Page – 1/1)

Date of Test 02-05-2025
Gauge length 8 inches
Description Steel Wire Tensile Test

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	0.168	3/16	0.251	-	0.049	16.70	22.70	-	75890	-	103200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: Only One Sample for Tensile Test														
Bend Test														

Test Performed and Verified by: