Ref: CED/TFL/07/7296 Dated: 30-07-2025

Dated of Test: 07-08-2025 (Dr. RizwanRiaz)

To

M/S National Heritage Contractors
Lahore

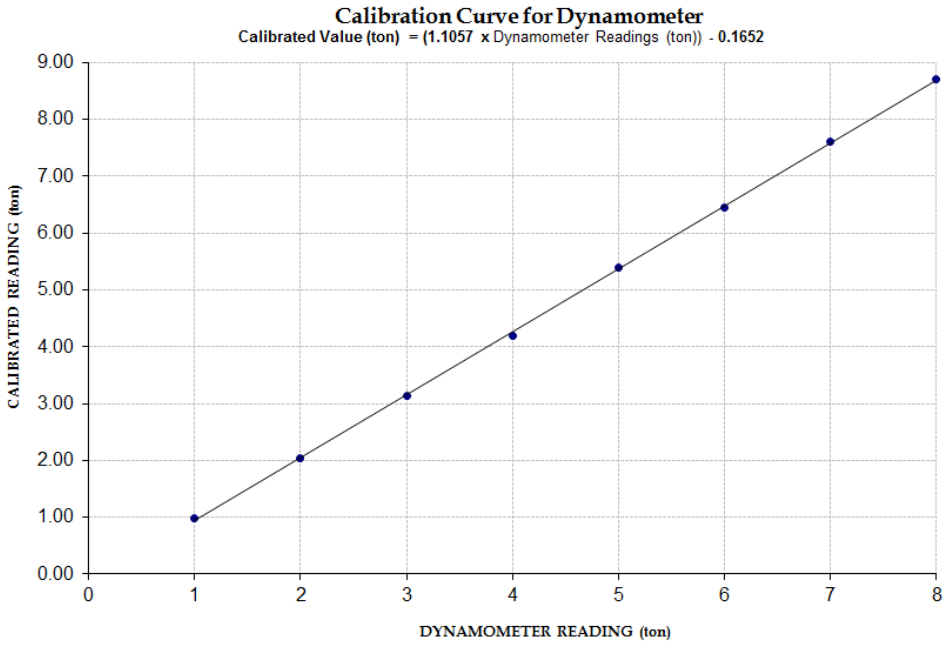
Subject: **- CALIBRATION OF DYNAMOMETER (MARK: TFL/07/7296)** (Page -1/1)

Ref: Your letter No. NHC/W-170/10949, dated: 30/07/2025 on the subject cited above. One Dynamometer (Brand PIAB, Model No. WS-1348) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10 (ton)
Calibrated Range : Zero - 8 (ton)

Dynamometer Readings (ton)		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Calibrated Readings	**(kg)**	**900**	**1850**	**2850**	**3800**	**4900**	**5850**	**6900**	**7900**
	(ton)	**0.99**	**2.04**	**3.14**	**4.18**	**5.40**	**6.44**	**7.60**	**8.70**

1000 kg = 1.1011 Ton



Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-02)

Reference # CED/TFL **7298** (Dr. M. Kashif) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/241 Dated: 29-07-2025

Tension Test Report (Page -1/10)

Date of Test 07-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

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**	**782.0**	**17600**	**172.66**	**19600**	**192.28**	**198**	**>3.50**	**26768**
2	**12.70 (1/2")**	**780.0**	**781.0**	**18000**	**176.58**	**19500**	**191.30**	**196**	**>3.50**	**26893**
3	**12.70 (1/2")**	**780.0**	**782.0**	**17600**	**172.66**	**19400**	**190.31**	**197**	**>3.50**	**26898**
4	**12.70 (1/2")**	**780.0**	**784.0**	**17700**	**173.64**	**19300**	**189.33**	**197**	**>3.50**	**27204**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only four 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

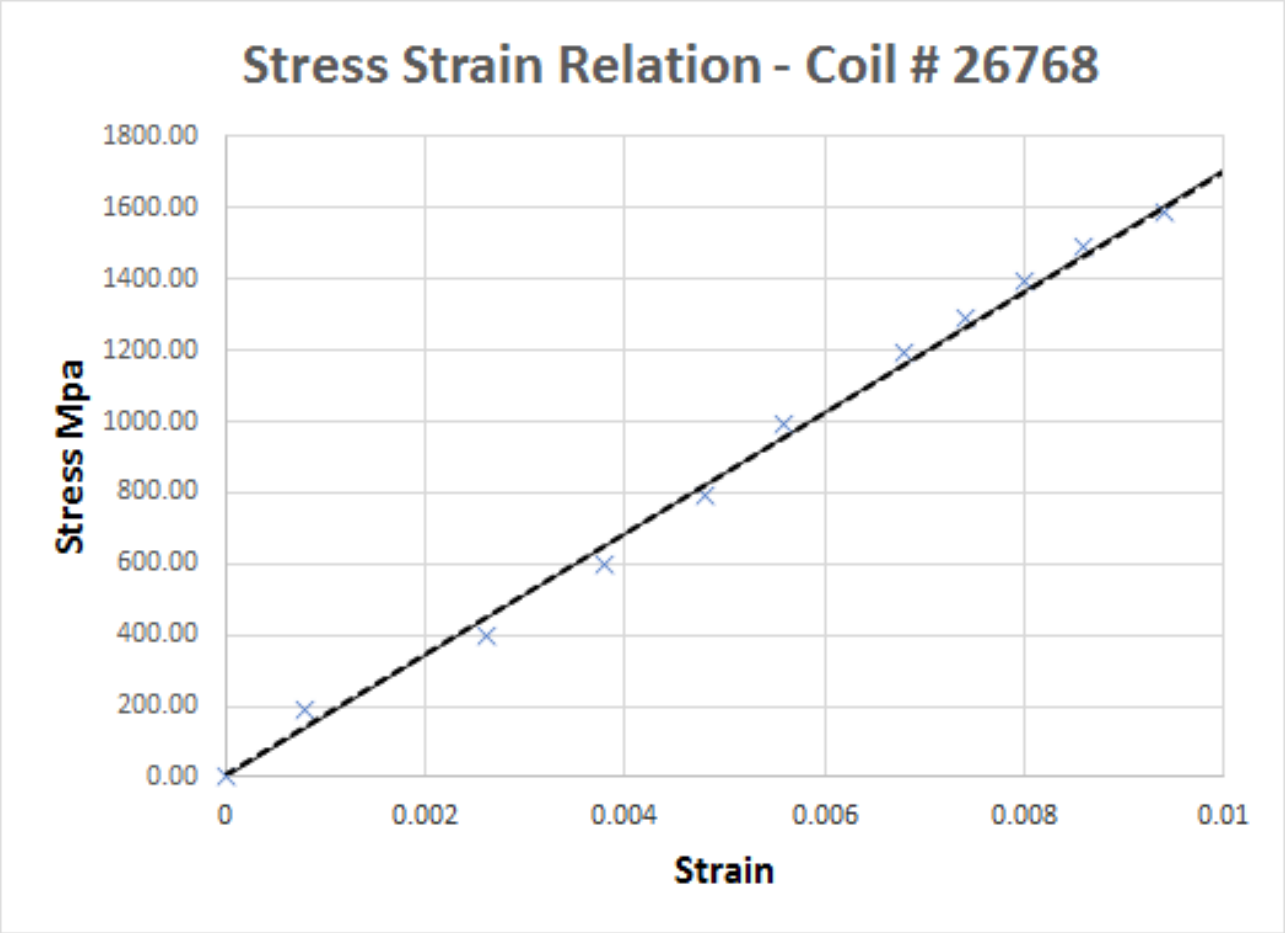
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-02)

Reference # CED/TFL **7298** (Dr. Rizwan Riaz) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/241 Dated: 29-07-2025

Graph (Page – 2/10)



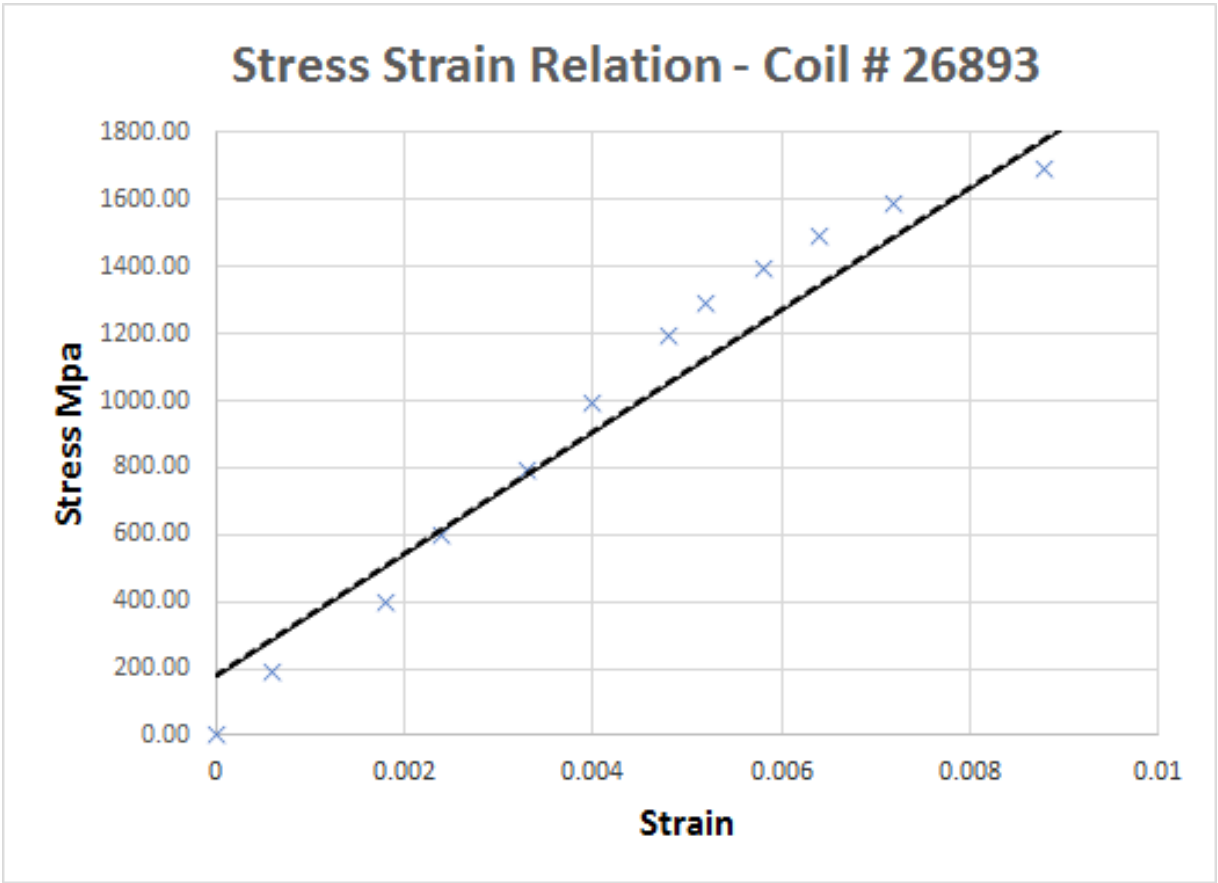
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-02)

Reference # CED/TFL **7298** (Dr. Rizwan Riaz) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/241 Dated: 29-07-2025

Graph (Page – 3/10)



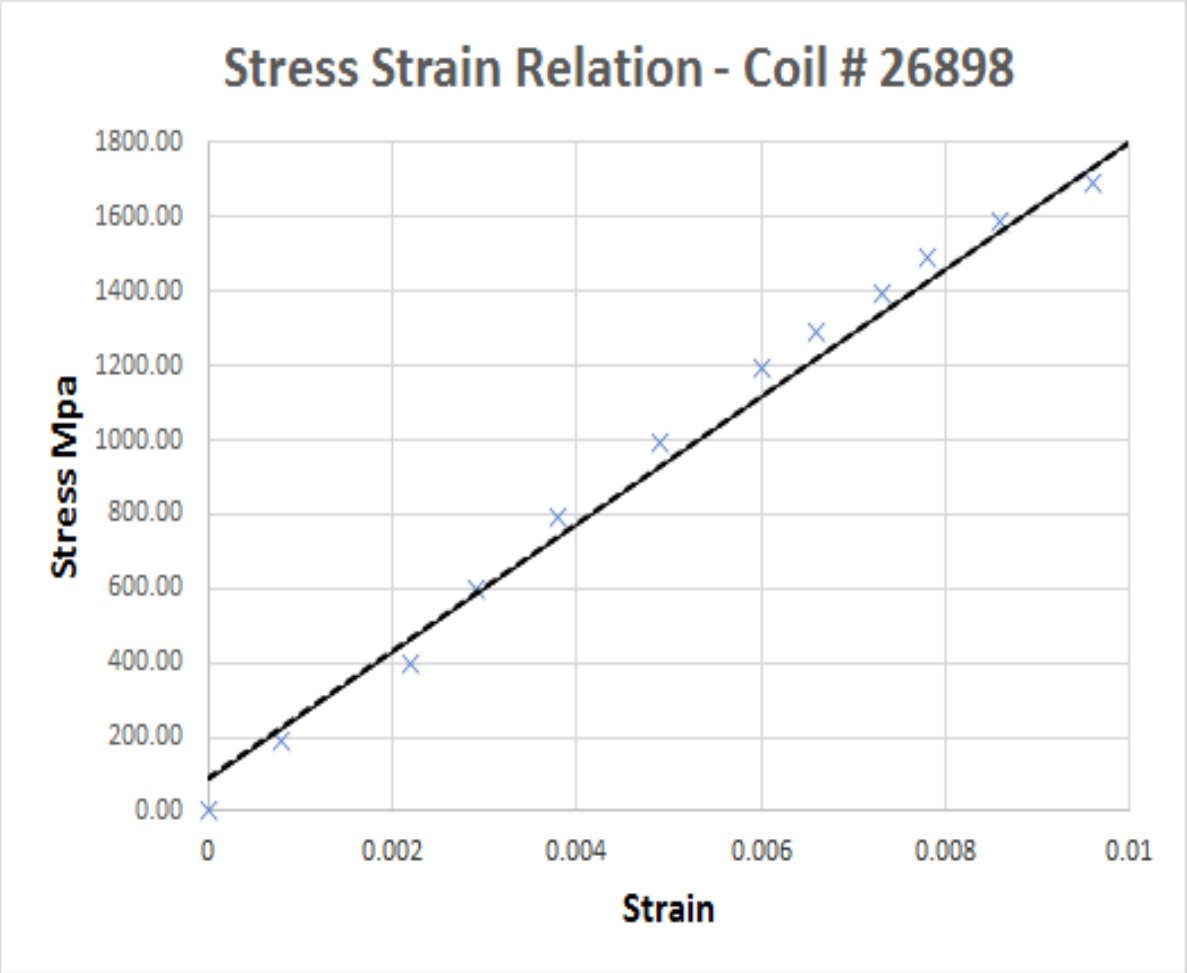
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-02)

Reference # CED/TFL **7298** (Dr. Rizwan Riaz) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/241 Dated: 29-07-2025

Graph (Page – 4/10)



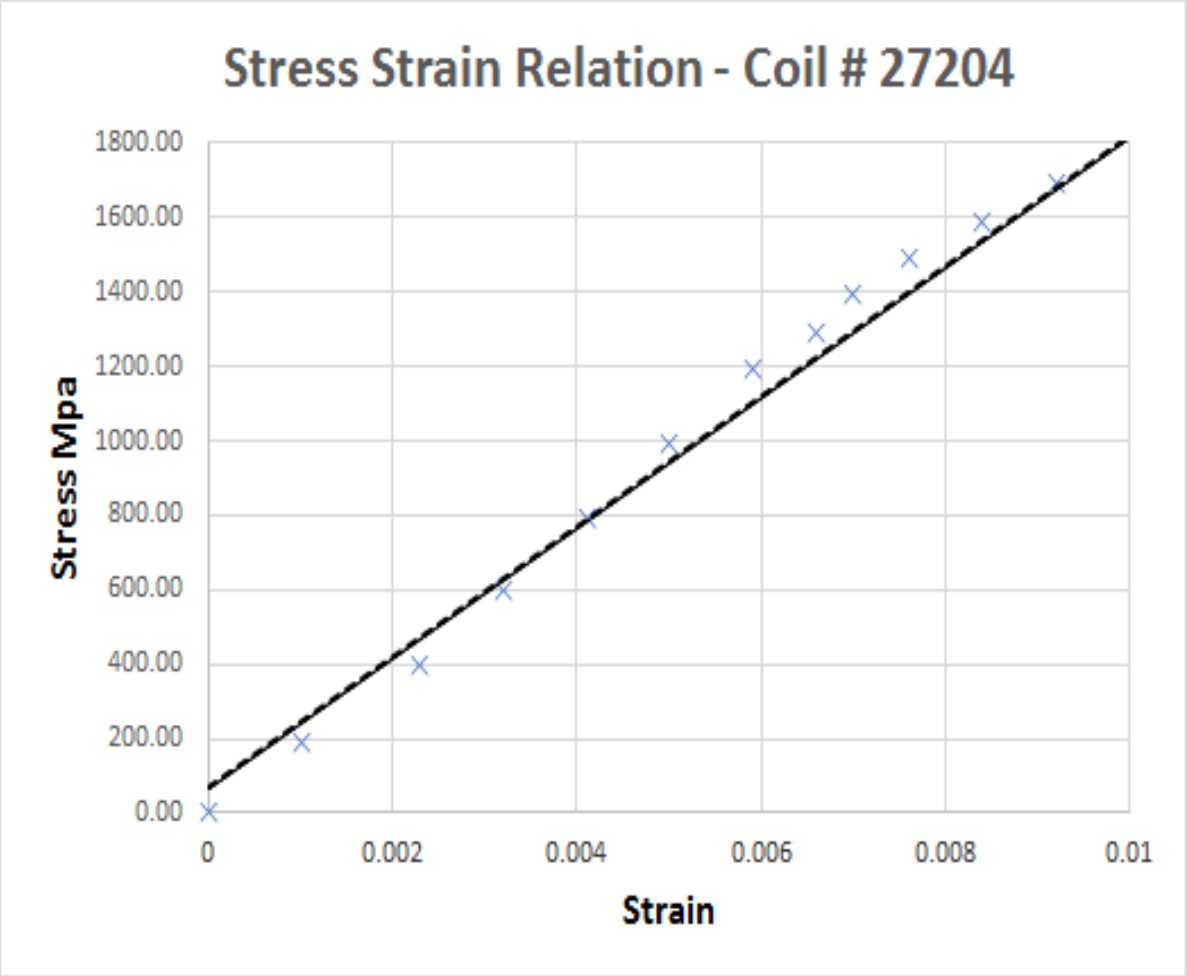
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-02)

Reference # CED/TFL **7298** (Dr. Rizwan Riaz) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/241 Dated: 29-07-2025

Graph (Page – 5/10)



Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-01 & 02)

Reference # CED/TFL **7298** (Dr. M. Kashif) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/239 Dated: 29-07-2025

Tension Test Report (Page -6/10)

Date of Test 07-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

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**	**782.0**	**17600**	**172.66**	**19200**	**188.35**	**199**	**>3.50**	**27165**
2	**12.70 (1/2")**	**780.0**	**785.0**	**17800**	**174.62**	**19200**	**188.35**	**198**	**>3.50**	**27170**
3	**12.70 (1/2")**	**780.0**	**776.0**	**17400**	**170.69**	**19100**	**187.37**	**197**	**>3.50**	**27177**
4	**12.70 (1/2")**	**780.0**	**779.0**	**17600**	**172.66**	**19100**	**187.37**	**198**	**>3.50**	**27180**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only four 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

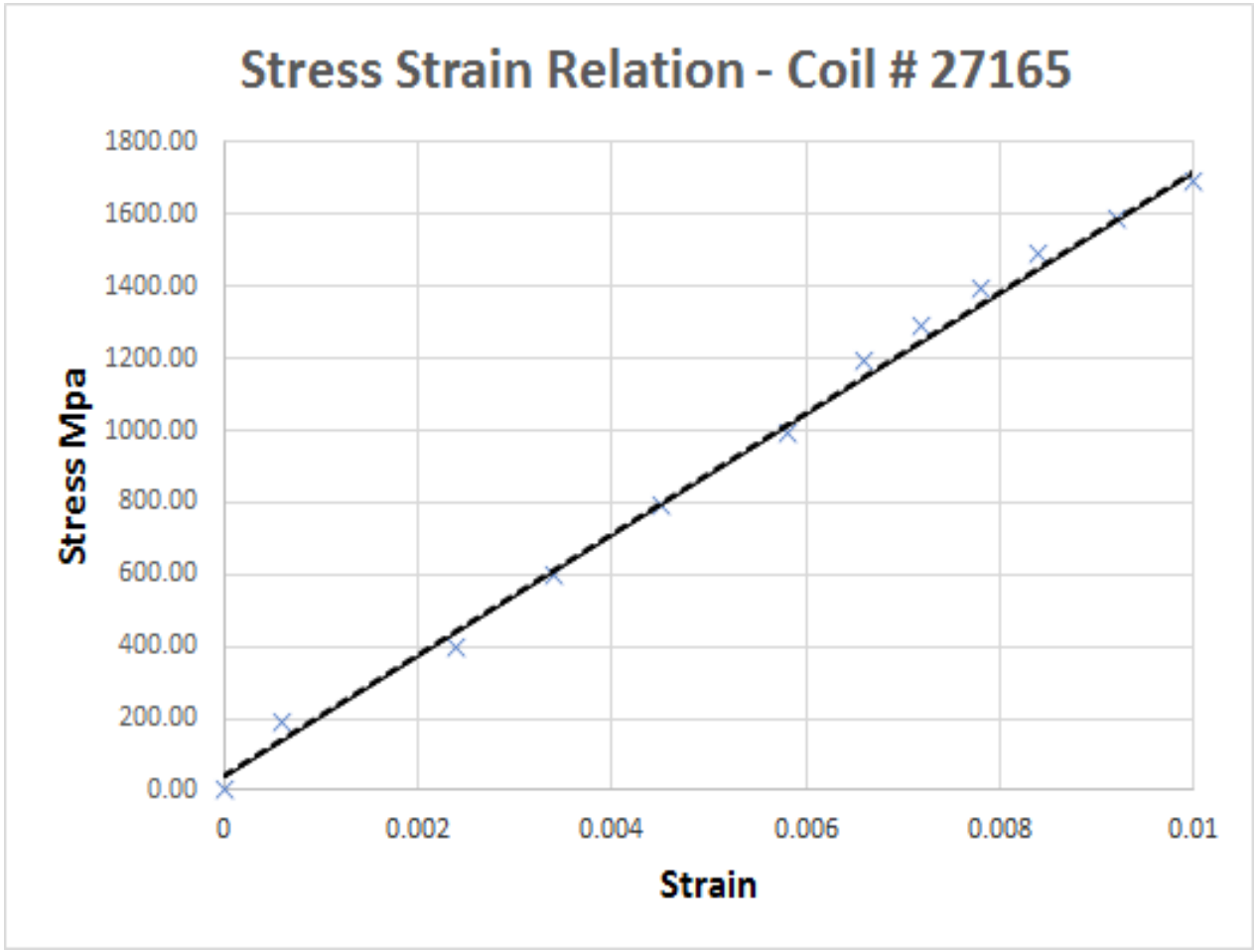
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-01 & 02)

Reference # CED/TFL **7298** (Dr. M. Kashif) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/239 Dated: 29-07-2025

Graph (Page – 7/10)



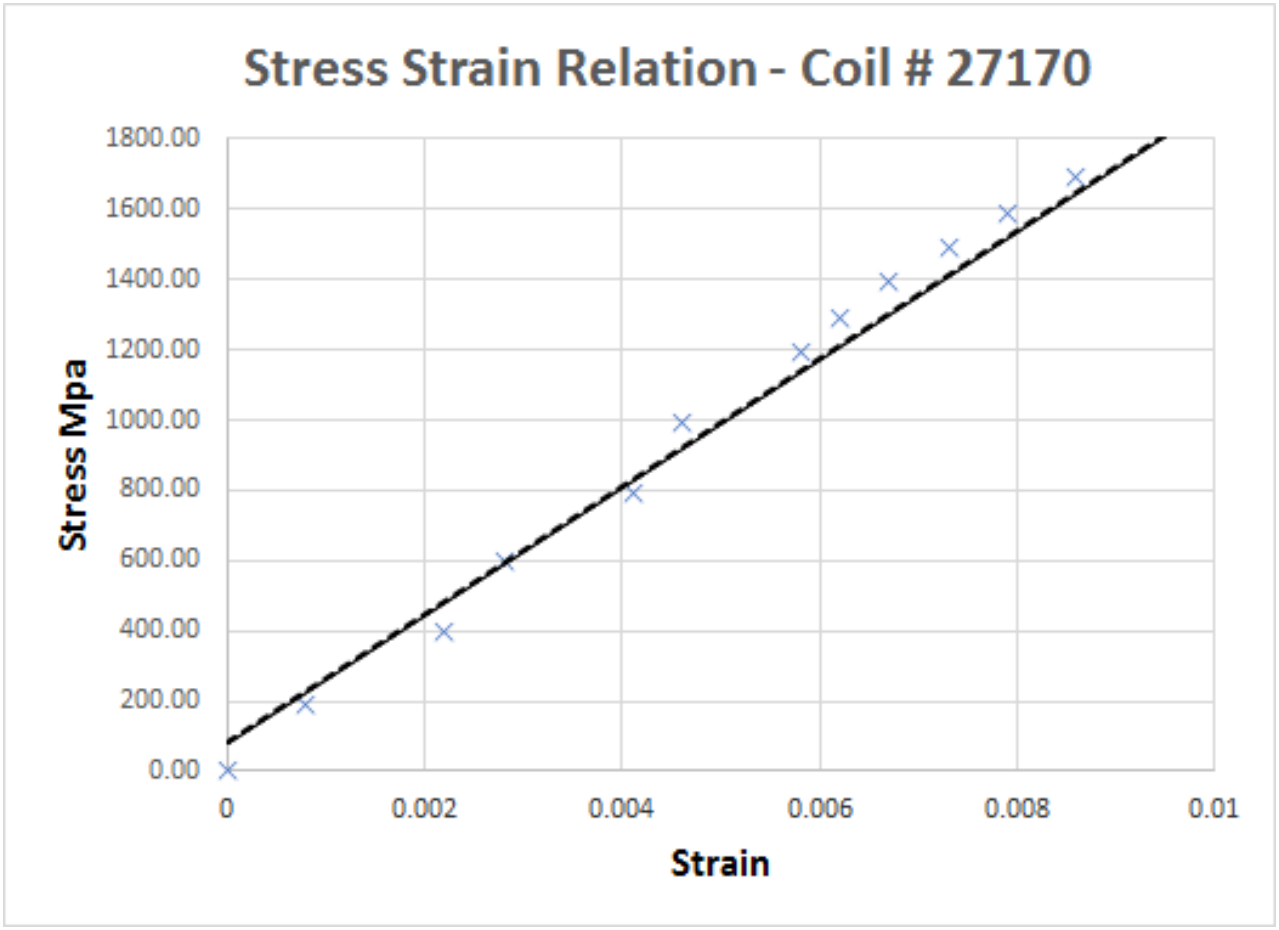
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-01 & 02)

Reference # CED/TFL **7298** (Dr. M. Kashif) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/239 Dated: 29-07-2025

Graph (Page – 8/10)



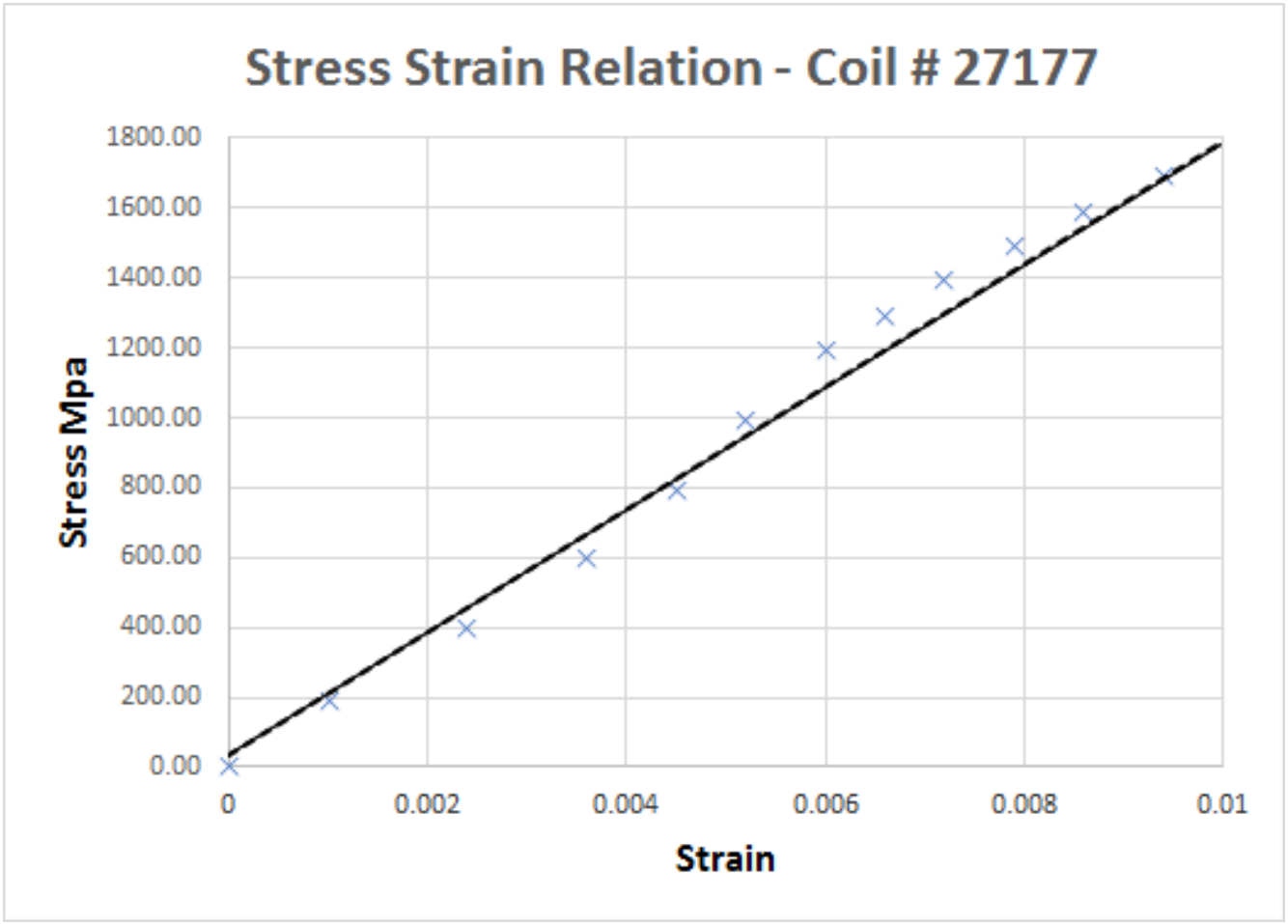
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-01 & 02)

Reference # CED/TFL **7298** (Dr. M. Kashif) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/239 Dated: 29-07-2025

Graph (Page – 9/10)



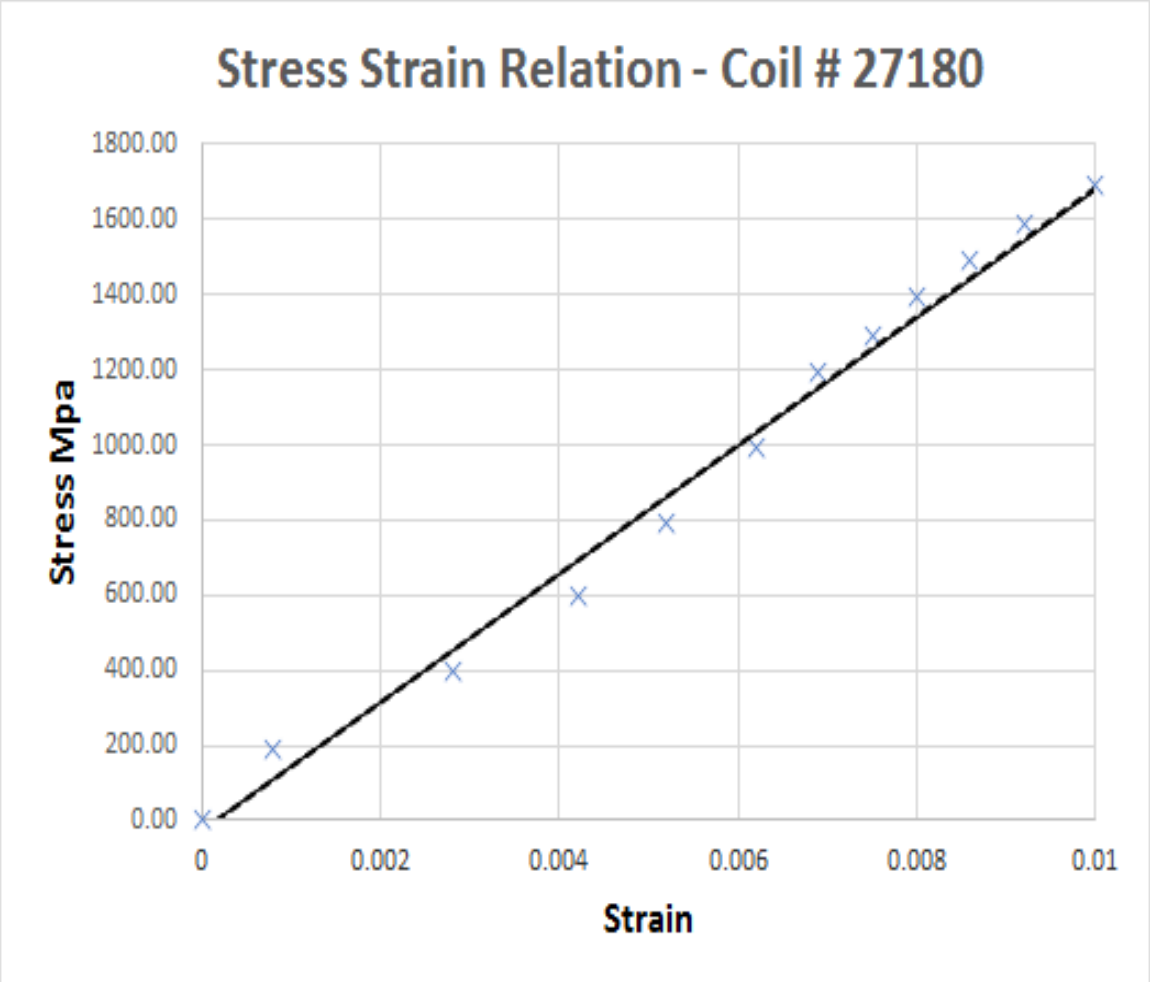
Test Performed and Verified by:

To,

Mr. Ikram Ullah Khan (Resident Engineer)
Nespak (Pvt.) Ltd. (Wire Manufacturing Industry (Pvt.) Ltd.)
Rawalpindi Ring Road Project (P-01 & 02)

Reference # CED/TFL **7298** (Dr. M. Kashif) Dated: 31-07-2025
Reference of the request letter # 4713/RRR/IUK/25/239 Dated: 29-07-2025

Graph (Page – 10/10)



Test Performed and Verified by:

To,

Mr. Salman Akbar (Director Projects)
Ans Associates
US Embassy Islamabad " Construction of Staircase"

Reference # CED/TFL **7326-3**1(Dr. Rizwan Riaz) Dated: 05-08-2025
Reference of the request letter # Nil Dated: 05-08-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.369**	**3**	**0.372**	**0.110**	**0.108**	**3400**	**4800**	**68124**	**69094**	**96175**	**97545**	**1.2**	**15.0**	**3/8"**
2	**0.374**	**3**	**0.374**	**0.110**	**0.11**	**3400**	**4800**	**68124**	**68267**	**96175**	**96376**	**1.2**	**15.0**	**3/8"**
3	**0.372**	**3**	**0.373**	**0.110**	**0.109**	**3500**	**4800**	**70127**	**70510**	**96175**	**96699**	**0.9**	**11.3**	**3/8"**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. Akhtar Jan
M.D. Construction Co.
Pak Arab Refinnery Ltd. Faisalabad Station TS-3, M.P.T Staff Residence

Reference # CED/TFL **7332** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # 1 Dated: 06-08-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.373**	**3**	**0.374**	**0.110**	**0.11**	**3500**	**4600**	**70127**	**70314**	**92167**	**92413**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 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. Khalid Bashir
Ittefaq Building Solution (Pvt.) Ltd.
ABL Babar Chowk Branch, Faisalabad

Reference # CED/TFL **7333** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # IBS/CGB/ST001 Dated: 06-08-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.373**	**3**	**0.374**	**0.110**	**0.11**	**3600**	**4700**	**72131**	**72331**	**94171**	**94432**	**1.4**	**17.5**	-
2	**0.373**	**3**	**0.374**	**0.110**	**0.11**	**3600**	**4700**	**72131**	**72379**	**94171**	**94494**	**1.5**	**18.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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,

Director Projects
Sheikhoo Sugar Mills, Steel Division, Anwar Abad Kot Addu, Muzaffargarh
(Sheikhoo Steel)

Reference # CED/TFL **7334** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # Nil Dated: 03-08-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.375**	**3**	**0.375**	**0.110**	**0.11**	**3200**	**4700**	**64116**	**63934**	**94171**	**93903**	**1.6**	**20.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 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. Muaz Ali (Project Manager)
MA Engineering Services
Engro Enfrashare B2S Sites

Reference # CED/TFL **7335** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # MA/UET/LHR/024 Dated: 08-05-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.350**	**10**	**0.362**	**0.120**	**0.103**	**3800**	**4500**	**69793**	**81535**	**82650**	**96555**	**0.8**	**10.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 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:

Ref: CED/TFL/08/7337 Dated: 06-08-2025

Dated of Test: 07-08-2025 (Dr. Rizwan Riaz)

To

Mr. Riaz Ahmed (General Manager)
M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG No. MK-1 No.59 (NTS with Harding)**
(Page # 1/2)

Reference to your Letter No. NTS/DC-Lug59/DC/25-6, dated: 06/08/2025, on the subject cited above. Two Lugs with assembly as received by us have been tested. The results are tabulated as shown below:

Sr. No.	Diameter	Length	Breaking Load	Remarks
	(mm)	(mm)	(kg)	
1	**44**	**66.50**	**17100**	**Lug Hook Failure**
-	-	-	-	-
-	-	-	-	-
Only one sample for test				

Test Performed and Verified by:

Ref: CED/TFL/08/7337 Dated: 06-08-2025

Dated of Test: 07-08-2025 (Dr. Rizwan Riaz)

To

Mr. Riaz Ahmed (General Manager)
M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG) No. MK-2 No. 43A (ATR) (NTS with Harding)**
(Page # 2/2)

Reference to your Letter No. NTS/DC-Lug 43A/DC/25-5, dated: 06/08/2025, on the subject cited above. Two Lug with assembly as received by us has been tested. The results are tabulated as shown below:

Sr. No.	Nominal Diameter	Length	Breaking Load	Remarks
	(mm)	(mm)	(kg)	
1	**44**	**59.00**	**18800**	**Lug Hook Failure**
-	-	-	-	-
-	-	-	-	-
Only one sample for test				

Test Performed and Verified by:

To,

Executive Engineer
Buildings Division, Kasur
Establishment / Revamping of Civil Veterinary Dispensary in Punjab One at CVD Cheena Uttar UC-120 Tehsil Kot Radha Kishan District Kasur

Reference # CED/TFL **7338** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # 6105/D Dated: 31-07-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.367	3	0.371	0.110	0.108	3500	5400	70127	71533	108196	110366	1.1	13.8	3/8"
2	0.365	3	0.370	0.110	0.107	3400	5300	68124	69787	106193	108785	1.1	13.8	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Mr. Faheem Ahmed (ARE, Package-I PCP Daska)
MM Pakistan (Pvt.) Ltd.
Construction of Strom Water Drainage in Daska City
(Islamabad Supreme)

Reference # CED/TFL **7339** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # DSK/CON/1094/SWD/273/2025 Dated: 20-05-2025

Tension Test Report

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.374**	**3**	**0.374**	**0.110**	**0.11**	**3200**	**4900**	**64116**	**64159**	**98178**	**98243**	**1.4**	**17.5**	-
2	**0.367**	**3**	**0.370**	**0.110**	**0.108**	**3200**	**4800**	**64116**	**65464**	**96175**	**98196**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. Faheem Ahmed (ARE, Package-I PCP Daska)
MM Pakistan (Pvt.) Ltd.
Construction of Strom Water Drainage in Daska City
(Islamabad Supreme)

Reference # CED/TFL **7339** (Dr. Rizwan Riaz) Dated: 06-08-2025
Reference of the request letter # DSK/CON/1094/SWD/247/2025 Dated: 28-02-2025

Tension Test Report

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.373**	**3**	**0.374**	**0.110**	**0.11**	**3300**	**5000**	**66120**	**66379**	**100182**	**100575**	**1.4**	**17.5**	-
2	**0.366**	**3**	**0.370**	**0.110**	**0.107**	**3200**	**4800**	**64116**	**65636**	**96175**	**98454**	**1.5**	**18.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Muhammad Shafiq (Assistant Resident Engineer)
MM Pakistan (Pvt.) Ltd.
Improvement of Sewerage System and Construction of Waste Water Treatment Plant (WWTP)
Kamalia City (Package-04 Construction of Waste Water Treatment Plant) (FF Steel)

Reference # CED/TFL **7340** (Dr. Rizwan Riaz) Dated: 07-08-2025
Reference of the request letter # MMP/1095/KCM/WWTP/137/2025 Dated: 06-07-2025

Tension Test Report (Page-1/1)

Date of Test 07-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.369**	**3**	**0.372**	**0.110**	**0.109**	**3100**	**4300**	**62113**	**62944**	**86156**	**87310**	**1.3**	**16.3**	**3/8"**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 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: