

To,
Mr. Usman Latif (Director)
Vision Engineering (Pvt.) Ltd.

Reference # CED/TFL 6922 (Dr. M. Rizwan Riaz)
Reference of the request letter # VECO/2025/0526/1784

Dated: 08-05-2025
Dated: 08-05-2025

Tension Test Report (Page -1/1)

Date of Test 12-05-2025
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	433.0	10800	105.95	11600	113.80	>3.50	xx
2	11.11 (7/16")	582.0	588.0	13100	128.51	14900	146.17	>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,

Mr. Nasir Mehmood (Construction Manager)
Elite Engineering Pvt. Ltd.
Sitara 3 Jays Tower
(Sheikhoo Steel)

Reference # CED/TFL **6924** (Dr. Rizwan Riaz)
Reference of the request letter # EEPL/08/EL-17

Dated: 08-05-2025
Dated: 08-05-2025

Tension Test Report (Page-1/1)

Date of Test 12-05-2025
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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.363	3	0.368	0.110	0.107	3200	4500	64116	66156	90164	93032	1.2	15.0	-
2	0.363	3	0.368	0.110	0.107	3200	4600	64116	66156	92167	95099	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,
 Sub Divisional Officer
 Buildings Sub Division Arifwala
 Program for Revamping of 14-Nos Basic Health Unit in District Pakpattan (Phase-II)
 ADP No.579/2024-25

Reference # CED/TFL 6927 (Dr. Rizwan Riaz)
 Reference of the request letter # 776/SDO-A

Dated: 08-05-2025
 Dated: 11-04-2025

Tension Test Report (Page-1/1)

Date of Test 12-05-2025
 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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.110	0.11	3300	5000	66120	66153	100182	100232	1	12.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

Ref: CED/TFL/05/6928
Dated of Test: 12-05-2025

Dated: 08-05-2025

To,

Mr. Amjad Saeed (Resident Engineer),
NESPAK (Pvt.) Ltd.

Dualization of Faisalabad Chiniot Sargodha Road From Kamalpur Interchange to
Tehsil Chowk Chiniot, District Faisalabad and Chiniot, Length =24.00KM,
Section-I=8.53km & Section-II=15.5 km (Bridges) (ADP No. 1753)

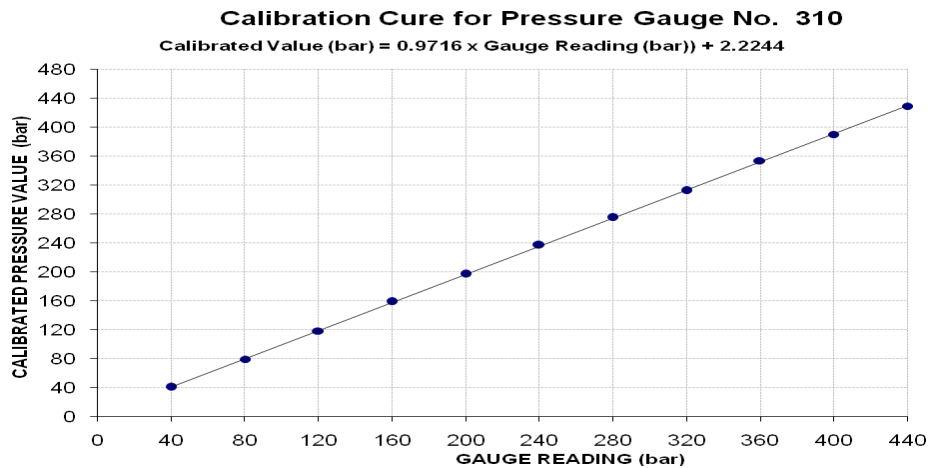
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/6928) (Page -1/2)

Reference to your Letter No. 4834/F/(RR)/103/AS/05/519, Dated: 30/04/2025 on
the subject cited above. One Pressure Gauge No. 310 as received by us has been calibrated.
The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 440 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360	400	440
Calibrated Load (kg)	8200	16000	23900	32000	39700	47800	55500	63000	71400	78700	86600
Calibrated Pressure (bar)	41	79	118	158	197	237	275	312	354	390	429

The Ram Are use for Calibration = 198 cm²



Test Performed and Verified by:

Ref: CED/TFL/05/6928
Dated of Test: 12-05-2025

Dated: 08-05-2025

To,

Mr. Amjad Saeed (Resident Engineer),
NESPAK (Pvt.) Ltd.

Dualization of Faisalabad Chiniot Sargodha Road From Kamalpur Interchange to
Tehsil Chowk Chiniot, District Faisalabad and Chiniot, Length = 24.00KM,
Section-I=8.53km & Section-II=15.5 km (Bridges) (ADP No. 1753)

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/6928) (Page -2/2)

Reference to your Letter No. 4834/F/(RR)/103/AS/05/519, Dated: 30/04/2025 on
the subject cited above. One Pressure Gauge No. 320 as received by us has been calibrated.
The results are tabulated as under:

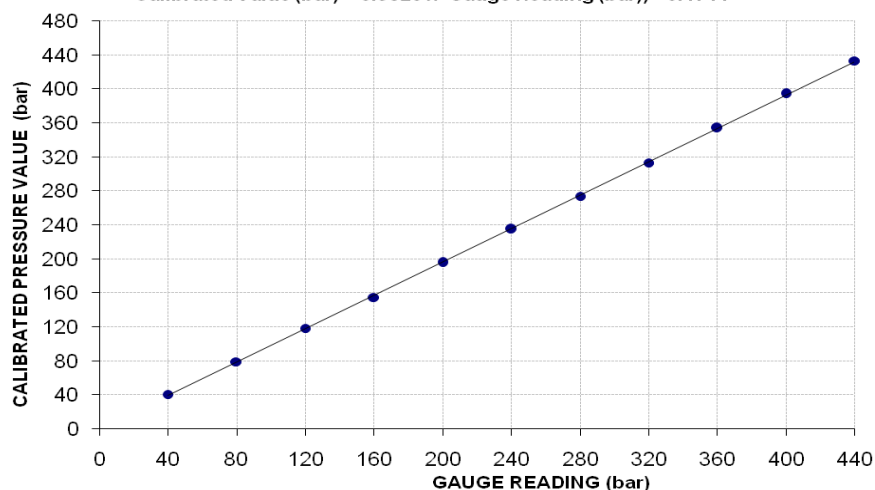
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 440 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360	400	440
Calibrated Load (kg)	8200	16000	23900	31300	39500	47400	55300	63200	71500	79600	87400
Calibrated Pressure (bar)	41	79	118	155	196	235	274	313	354	394	433

The Ram Are use for Calibration = 198 cm²

Calibration Cure for Pressure Gauge No. 320

Calibrated Value (bar) = 0.9825 x Gauge Reading (bar) - 0.1711



Test Performed and Verified by:

To,

Mr. Amjad Saeed (Resident Engineer),
NESPAK (Pvt.) Ltd.

Dualization of Faisalabad Chiniot Sargodha Road From Kamalpur Interchange to Tehsil
Chowk Chiniot, District Faisalabad and Chiniot, Length =24.00KM, Section-I=8.53km &
Section-II=15.5 km (Bridges) (ADP No. 1753)

Reference # CED/TFL **6929** (Dr. M. Rizwan Riaz)

Dated: 08-05-2025

Reference of the request letter # 4834/F/(RR)/103/AS/05/510

Dated: 26-04-2025

Tension Test Report (Page -1/2)

Date of Test 12-05-2025

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	782.0	17400	170.69	18800	184.43	199	>3.50	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only One sample 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. Amjad Saeed (Resident Engineer),

NESPAK (Pvt.) Ltd.

Dualization of Faisalabad Chiniot Sargodha Road From Kamalpur Interchange to Tehsil Chowk Chiniot, District Faisalabad and Chiniot, Length =24.00KM, Section-I=8.53km & Section-II=15.5 km (Bridges) (ADP No. 1753)

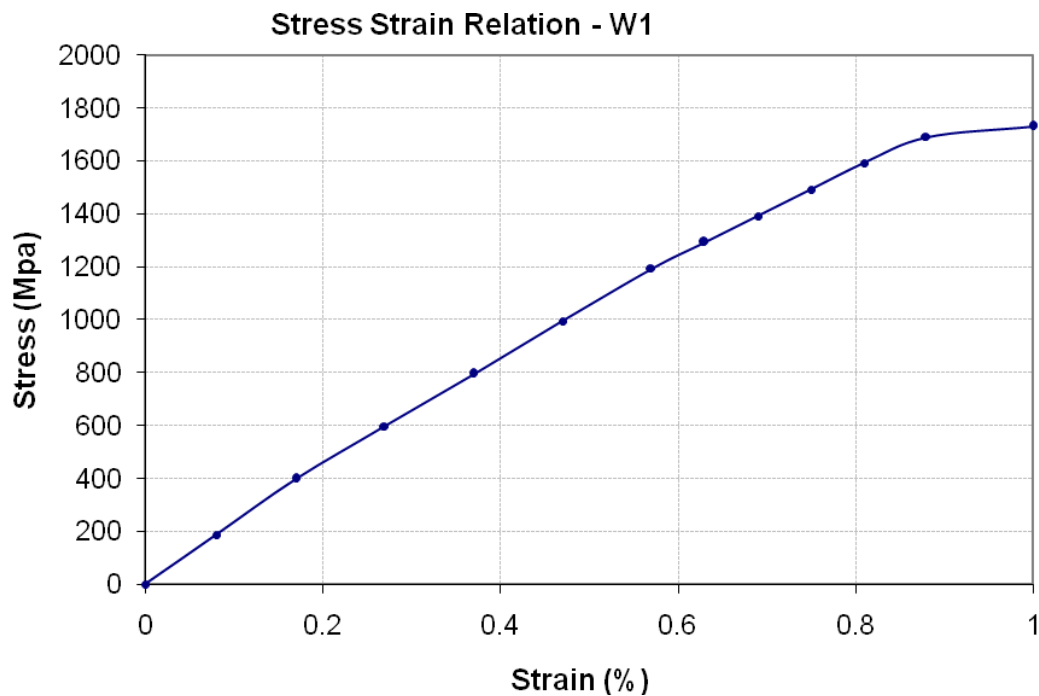
Reference # CED/TFL **6929** (Dr. M. Rizwan Riaz)

Dated: 08-05-2025

Reference of the request letter # 4834/F/(RR)/103/AS/05/510

Dated: 26-04-2025

Graph (Page – 2/2)



Test Performed and Verified by:

To,
 Mr. Wasif Manzoor
 Salman Developers
 Mian Numan Sb. Villa

Reference # CED/TFL 6931 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 12-05-2025
 Dated: 12-05-2025

Tension Test Report (Page-1/1)

Date of Test 12-05-2025
 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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.361	3	0.368	0.110	0.106	3500	5200	70127	72664	104189	107957	1.1	13.8	-
2	0.363	3	0.369	0.110	0.107	3500	5200	70127	72240	104189	107328	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,
General Manager
Wire & Cable Products (Pvt.) Ltd.

Reference # CED/TFL **6932** (Dr. M. Rizwan Riaz)
Reference of the request letter # 4147WCP/PMDC

Dated: 12-05-2025
Dated: 12-05-2025

Tension Test Report (Page – 1/1)

Date of Test 12-05-2025

Description Steel Wire Rope Tensile Test ((6x19+FC U/G))

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	20	1.37	23000	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Only one sample for Test				

Test Performed and Verified by:

To,
M/S A.H Construction
District Jail Gujrat

Reference # CED/TFL 6935 (Dr. Rizwan Riaz)
Reference of the request letter # AHC/348/29/15

Dated: 12-05-2025
Dated: 12-05-2025

Tension Test Report (Page-1/1)

Date of Test 12-05-2025
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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.110	0.108	2700	4000	54098	55002	80145	81484	1.6	20.0	Ravi Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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: