

To,

Executive Engineer

Highways Division, Lahore

Reconstruction/Rehabilitation of G.T Road From Quaid-E-Azam Interchange (Lahore Ring Road) to Wahga Border in District Lahore

Reference # CED/TFL 7190 (Dr. Usman Akmal)

Dated: 04-07-2025

Reference of the request letter # 85/camp

Dated: 18-03-2025

Tension Test Report (Page-1/4)

Date of Test 09-07-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3	0.375	0.110	0.111	34.00	45.20	69459	69100	92339	91862	1.4	17.5	AK Steel
2	0.370	3	0.372	0.110	0.109	42.00	49.50	85802	86808	101124	102310	0.7	8.8	AK Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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,

Executive Engineer

Highways Division, Lahore

Reconstruction/Rehabilitation of G.T Road From Quaid-E-Azam Interchange (Lahore Ring Road) to Wahga Border in District Lahore

Reference # CED/TFL 7190 (Dr. Usman Akmal)

Dated: 04-07-2025

Reference of the request letter # 116/camp

Dated: 11-04-2025

Tension Test Report (Page-2/4)

Date of Test 09-07-2025

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 (kN)	Breaking Load (kN)	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	33.70	45.50	68846	71352	92952	96336	1.1	13.8	SJ Steel
2	0.391	3	0.383	0.110	0.115	33.20	49.50	67824	64885	101124	96741	1.1	13.8	SJ Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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,

Executive Engineer

Highways Division, Lahore

Reconstruction/Rehabilitation of G.T Road From Quaid-E-Azam Interchange (Lahore Ring Road) to Wahga Border in District Lahore

Reference # CED/TFL 7190 (Dr. Usman Akmal)

Dated: 04-07-2025

Reference of the request letter # 106/camp

Dated: 29-03-2025

Tension Test Report (Page-3/4)

Date of Test 09-07-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.357	3	0.366	0.110	0.105	30.00	43.50	61287	64235	88866	93140	1.2	15.0	Mughal Steel
2	0.368	3	0.371	0.110	0.108	32.20	46.50	65781	66970	94995	96712	1.1	13.8	Mughal Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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,

Executive Engineer

Highways Division, Lahore

Reconstruction/Rehabilitation of G.T Road From Quaid-E-Azam Interchange (Lahore Ring Road) to Wahga Border in District Lahore

Reference # CED/TFL 7190 (Dr. Usman Akmal)
Reference of the request letter # 29/camp

Dated: 04-07-2025

Dated: 15-01-2025

Tension Test Report (Page-4/4)

Date of Test 09-07-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.365	3	0.369	0.110	0.107	38.20	44.50	78039	80134	90909	93350	1.1	13.8	PSR Steel
2	0.369	3	0.371	0.110	0.108	34.20	46.20	69867	70918	94382	95802	1.2	15.0	PSR Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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

The Punjab Employees Social Security Institution

Construction of Boundary Wall, Guard Room, Main Gates and Street Lights for Pessi State of the
Art Institute of Cardiology & Pulmonolgy Services, Teaching Hospital and a Center of Excellence

Reference # CED/TFL **7193** (Dr. Usman Akmal)

Dated: 07-07-2025

Reference of the request letter # SS.DC(207)25/868

Dated: 02-07-2025

Tension Test Report (Page-1/1)

Date of Test 09-07-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.409	3	0.391	0.110	0.12	35.00	51.20	71502	65436	104597	95723	1.3	16.3	3"/8
2	0.372	3	0.373	0.110	0.109	31.50	46.50	64351	64744	94995	95574	1.2	15.0	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Mr. M. Armughan Khan (Deputy Director QCD)

WASA, Lahore

Tender No. XEN (O&M-II) AWT/2024-2025/143/Provision of Trunk Sewer (Umer Khan Road to Lahore Lyceum School Manawan Campus) (M/s. SA 4 Construction Company)

Reference # CED/TFL 7194 (Dr. Usman Akmal)

Dated: 07-07-2025

Reference of the request letter # QCD/2981

Dated: 02-07-2025

Tension Test Report (Page-1/1)

Date of Test 09-07-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.402	3	0.388	0.110	0.118	38.50	51.50	78652	73252	105209	97986	1.4	17.5	-
2	0.394	3	0.384	0.110	0.116	34.50	49.50	70480	66950	101124	96058	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. Sayam Jee (Chief Executive Officer (CEO))
Risen Pro Industry (Pvt.) Ltd.

Reference # CED/TFL **7196** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 08-07-2025
Dated: 04-07-2025

Tension Test Report (Page -1/2)
Date of Test 09-07-2025
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	777.0	16800	164.81	18100	177.56	196	>3.50	xx
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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:

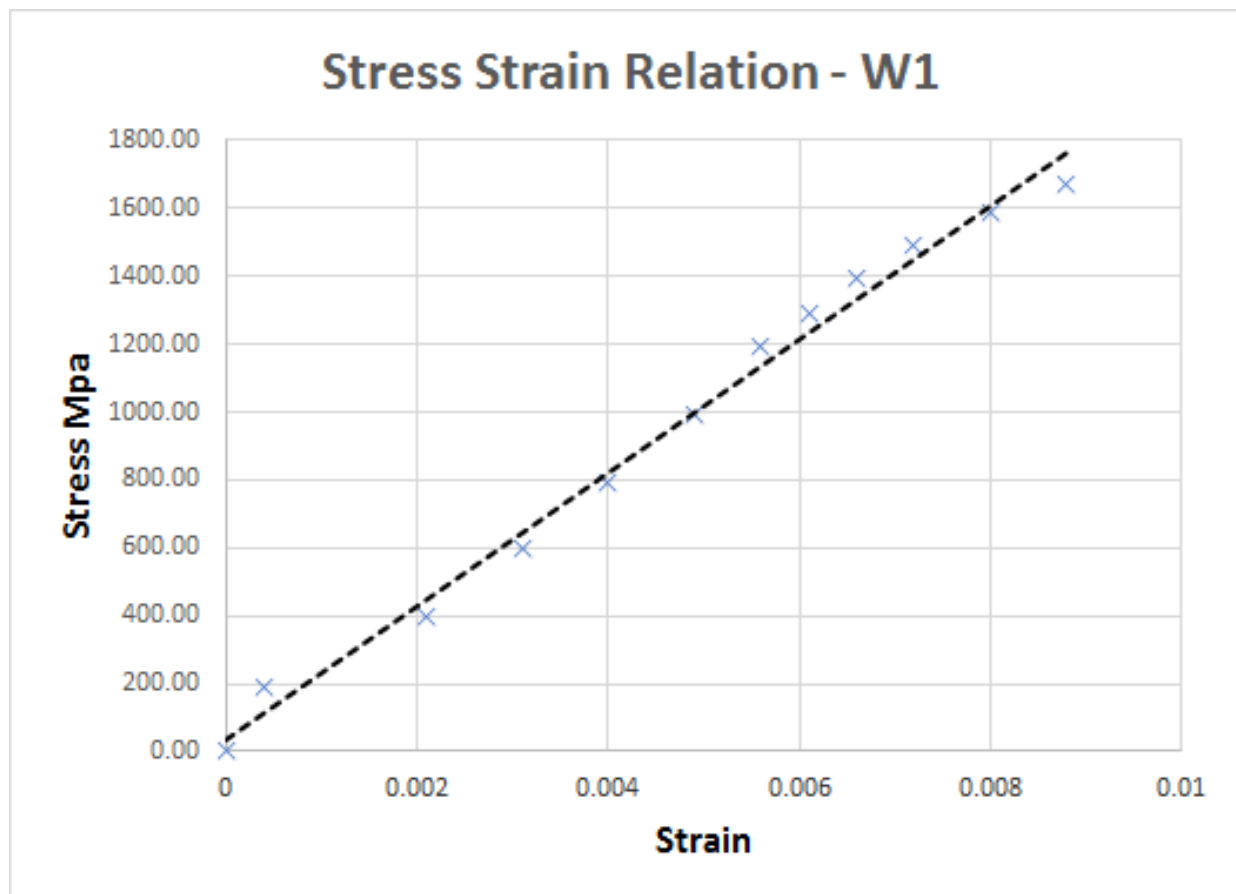
To,

Mr. Sayam Jee (Chief Executive Officer (CEO))
Risen Pro Industry (Pvt.) Ltd.

Reference # CED/TFL **7196** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 08-07-2025
Dated: 04-07-2025

Graph (Page – 2/2)



Test Performed and Verified by:

To,

Lt. Col. Muhammad Foad Bashir Saeed (R)
Defence Housing Authority, Lahore.
Const. of Bridge on Hudaira Drain Link Between Phase-VII to Village Karbath (M/s DHA
C)
Witness by: Mr. Ijaz Ali (SLT DHA Lab)

Reference # CED/TFL **7198** (Dr. Safeer Abbas)
Reference of the request letter # 408/241/32/Lab/12/138

Dated: 08-07-2025
Dated: 30-06-2025

Tension Test Report (Page -1/1)

Date of Test 09-07-2025
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)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	12.70 (1/2")	780.0	786.0	17800	174.62	19400	190.31	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
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. M. Shaharyar (Quality Control Engineer)
Maypole (Pvt.) Ltd. (Limelight Developers)
Limelight Tower Plot No. 90/B-2 Kasuri Road Gulberg III, Lahore

Reference # CED/TFL 7201 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 08-07-2025
Dated: 08-07-2025

Tension Test Report (Page-1/1)

Date of Test 09-07-2025
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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.357	3	0.366	0.110	0.105	38.50	47.00	78652	82402	96016	100595	1.0	12.5	-
2	0.359	3	0.366	0.110	0.105	38.70	47.70	79060	82441	97446	101614	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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:

Ref: CED/TFL/07/7202

Dated: 08-07-2025

Dated of Test: 09-07-2025 (Dr. Safeer Abbas)

To

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

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

Reference to your Letter No. NTS/DC-Lug 59/DC/25, dated: 07/07/2025, on the subject cited above. One Lug No. Sr. 1 (dia 44.0 mm, Length 66.50mm) with assembly as received by us have been tested. The results are shown below:

Sample No.	:	01
Breaking Load	:	14600 kg
Remarks	:	Lug Failure

Test Performed and Verified by:

Ref: CED/TFL/07/7202

Dated: 08-07-2025

Dated of Test: 09-07-2025 (Dr. Safeer Abbas)

To

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

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

Reference to your Letter No. NTS/DC-Lug 43A/DC/24, dated: 13/02/2024, on the subject cited above. One Lug No. Sr. 2 (dia 44 mm, Length 59mm) with assembly as received by us has been tested. The results are shown below:

Sample No.	:	01
Breaking Load	:	16000 kg
Remarks	:	Lug Failure

Test Performed and Verified by:

To,

Resident Engineer (ACE Ltd, Sambrial Sialkot)
ACE Architectural & Town Planning Services Ltd.
Establishment of University of Applied Engineering and Emerging Technologies(UAEET) Sambrial,
Sialkot (FF Steel)

Reference # CED/TFL 7203 (Dr. Usman Akmal)
Reference of the request letter # ER/UAEET/ACE/2025/691

Dated: 09-07-2025
Dated: 08-07-2025

Tension Test Report (Page-1/1)

Date of Test 09-07-2025
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	0.372	3	0.373	0.110	0.109	35.20	45.50	71910	72323	92952	93486	1.4	17.5	-
2	0.372	3	0.373	0.110	0.109	34.50	45.00	70480	70862	91931	92429	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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: