To,
Han Jin Jang (Construction Supervisor/ Deputy PM)
Sunjin Engineering & Architectre
-

Reference # CED/TFL **7239** (Dr. M Kashif) Dated: 18-07-2025
Reference of the request letter # PK-IT-SUN-C-16JUL-001 Dated: 16-07-2025

Tension Test Report

Date of Test 23-07-2025
Gauge Length 2 inches
Description Steel Plate Strips Tensile and Bend Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	**Steel Plate 12mm**	**12.00 x 30.10**	**361.20**	**11210**	**16330**	**304.5**	**443.5**	**1**	**50.0**	-
2	**Steel Plate 9mm**	**9.80 x 30.10**	**294.98**	**12230**	**17070**	**406.7**	**567.7**	**0.8**	**40.0**	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 2 Samples for Bend test										

Bend Test
Steel Plate 12mm Strip Bend Test Through 180 Degree is Satisfactory
Steel Plate 9mm Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Han Jin Jang (Construction Supervisor/ Deputy PM)
Sunjin Engineering & Architectre
-

Reference # CED/TFL **7239** (Dr. M Kashif) Dated: 18-07-2025
Reference of the request letter # PK-IT-SUN-C-18-JUL-003 Dated: 18-07-2025

Tension Test Report

Date of Test 23-07-2025
Gauge Length 2 inches
Description Steel Plate Strips Tensile and Bend Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	**Steel Plate 4.5mm**	**4.30 x 31.10**	**133.73**	**3720**	**5220**	**272.9**	**382.9**	**0.9**	**45.0**	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test										

Bend Test
Steel Plate 4.5mm Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Han Jin Jang (Construction Supervisor/ Deputy PM)
Sunjin Engineering & Architectre
-

Reference # CED/TFL **7239** (Dr. M Kashif) Dated: 18-07-2025
Reference of the request letter # PK-IT-SUN-C-16-JUL-002 Dated: 16-07-2025

Tension Test Report

Date of Test 23-07-2025
Gauge Length 2 inches
Description H-Beam Strips Tensile and Bend Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	**H-Beam**	**12.40 x 30.30**	**375.72**	**13760**	**20200**	**359.3**	**527.4**	**1**	**50.0**	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test										

Bend Test
H-Beam Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Han Jin Jang (Construction Supervisor/ Deputy PM)
Sunjin Engineering & Architectre
-

Reference # CED/TFL **7239** (Dr. M Kashif) Dated: 18-07-2025
Reference of the request letter # PK-IT-SUN-C-18-JUL-004 Dated: 18-07-2025

Tension Test Report

Date of Test 23-07-2025
Gauge Length 2 inches
Description MS Pipe Strips Tensile and Bend Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	**MS Pipe SC2**	**4.80 x 31.20**	**149.76**	**5910**	**8560**	**387.1**	**560.7**	**0.8**	**40.0**	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test										

Bend Test
MS Pipe SC2 Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,
Han Jin Jang (Construction Supervisor/ Deputy PM)
Sunjin Engineering & Architectre
-

Reference # CED/TFL **7239** (Dr. M Kashif) Dated: 18-07-2025
Reference of the request letter # PK-IT-SUN-C-18-JUL-002 Dated: 18-07-2025

Tension Test Report

Date of Test 23-07-2025
Gauge Length 2 inches
Description C-Channel Strips Tensile and Bend Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	**C-Channel**	**9.30 x 30.70**	**285.51**	**13050**	**17630**	**448.4**	**605.8**	**1**	**50.0**	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test										

Bend Test
MS Pipe SC2 Strip Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Tanvir Ahmed Memon (Resident Engineer, GKBP)
Loya Associates JV Techno-Consult International (Pvt.) Ltd.
Bridge Over River Indus Connecting Ghotki With Kandhkot

Reference # CED/TFL **7243** (Dr. Rizwan Riaz) Dated: 21-07-2025
Reference of the request letter # RE/IE/GKBP/2025/393 Dated: 18-07-2025

Tension Test Report (Page -1/4)

Date of Test 23-07-2025
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**	**785.0**	**17500**	**171.68**	**19300**	**189.33**	**205**	**>3.50**	**26567**
2	**12.70 (1/2")**	**780.0**	**784.0**	**17600**	**172.66**	**19400**	**190.31**	**196**	**>3.50**	**26567**
3	**12.70 (1/2")**	**780.0**	**786.0**	**17500**	**171.68**	**19200**	**188.35**	**200**	**>3.50**	**26567**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
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

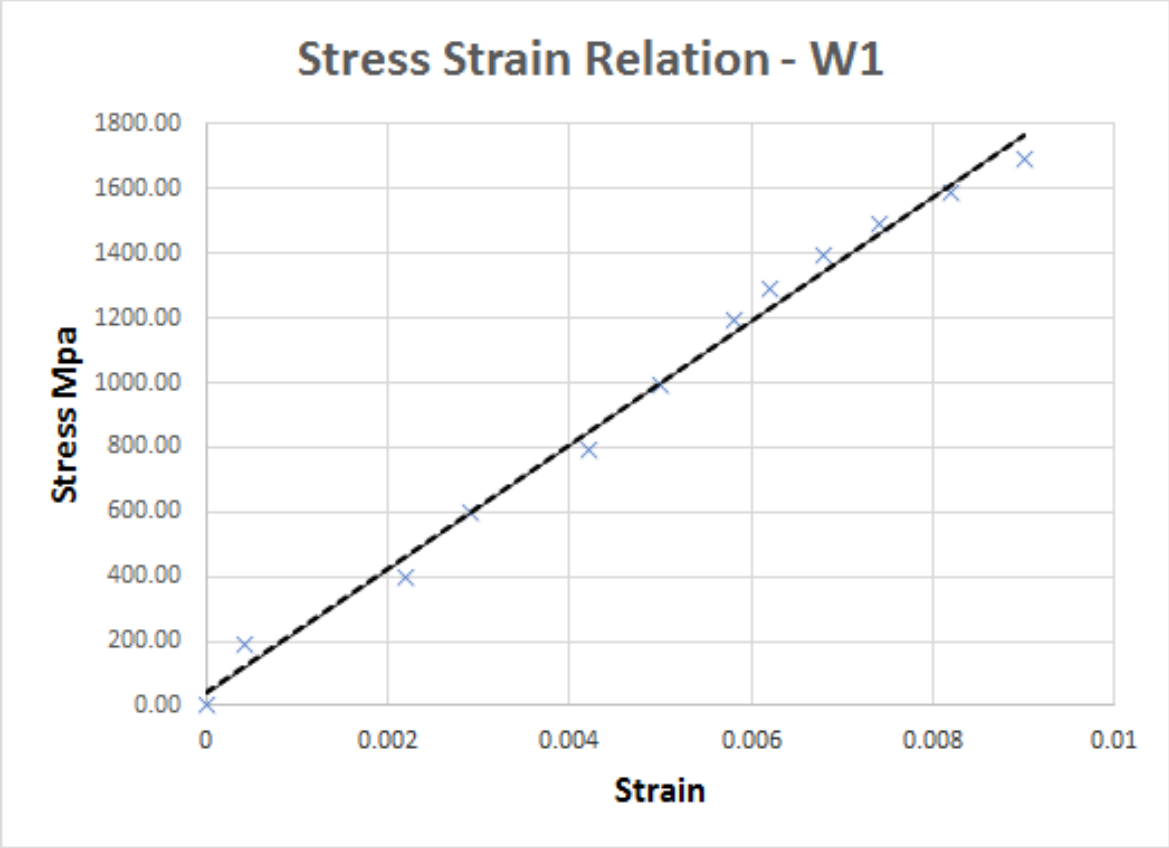
Test Performed and Verified by:

To,

Mr. Tanvir Ahmed Memon (Resident Engineer, GKBP)
Loya Associates JV Techno-Consult International (Pvt.) Ltd.
Bridge Over River Indus Connecting Ghotki With Kandhkot

Reference # CED/TFL **7243** (Dr. Rizwan Riaz) Dated: 21-07-2025
Reference of the request letter # RE/IE/GKBP/2025/393 Dated: 18-07-2025

Graph (Page – 2/4)



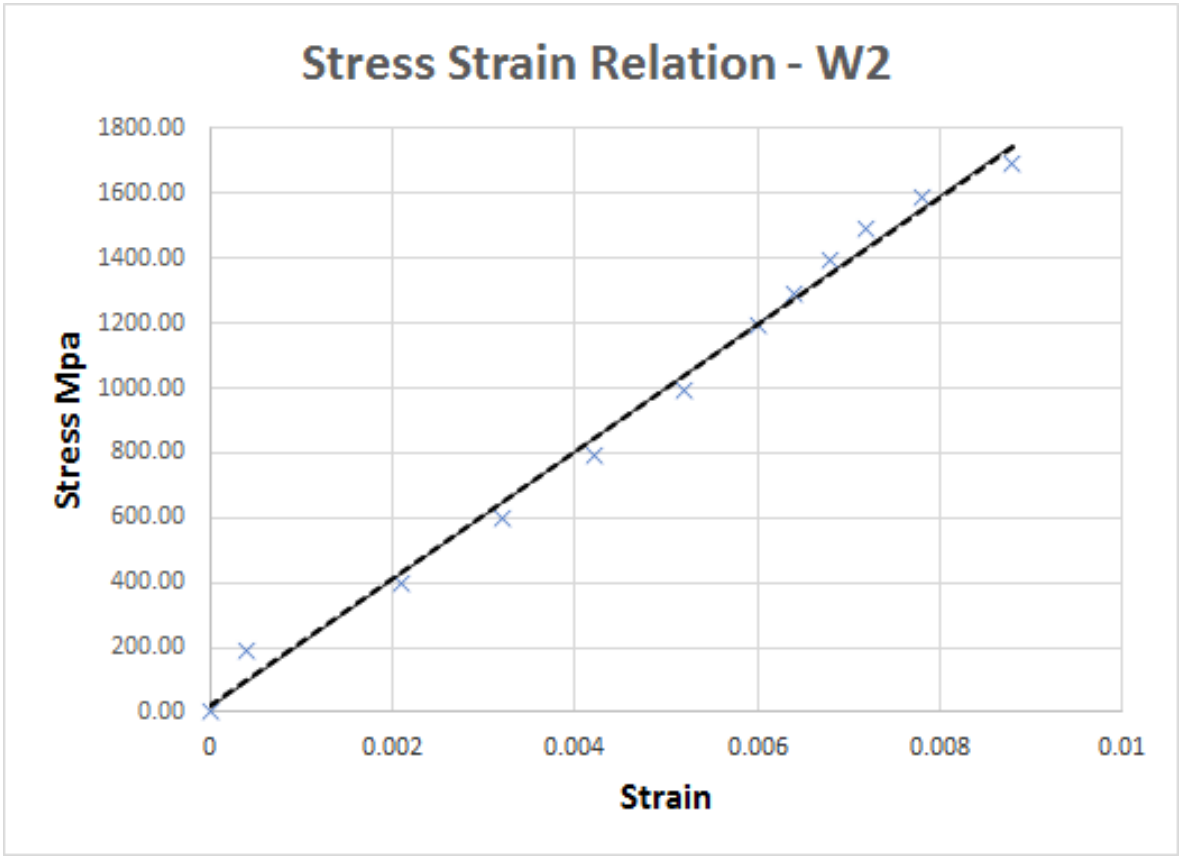
Test Performed and Verified by:

To,

Mr. Tanvir Ahmed Memon (Resident Engineer, GKBP)
Loya Associates JV Techno-Consult International (Pvt.) Ltd.
Bridge Over River Indus Connecting Ghotki With Kandhkot

Reference # CED/TFL **7243** (Dr. Rizwan Riaz) Dated: 21-07-2025
Reference of the request letter # RE/IE/GKBP/2025/393 Dated: 18-07-2025

Graph (Page – 3/4)



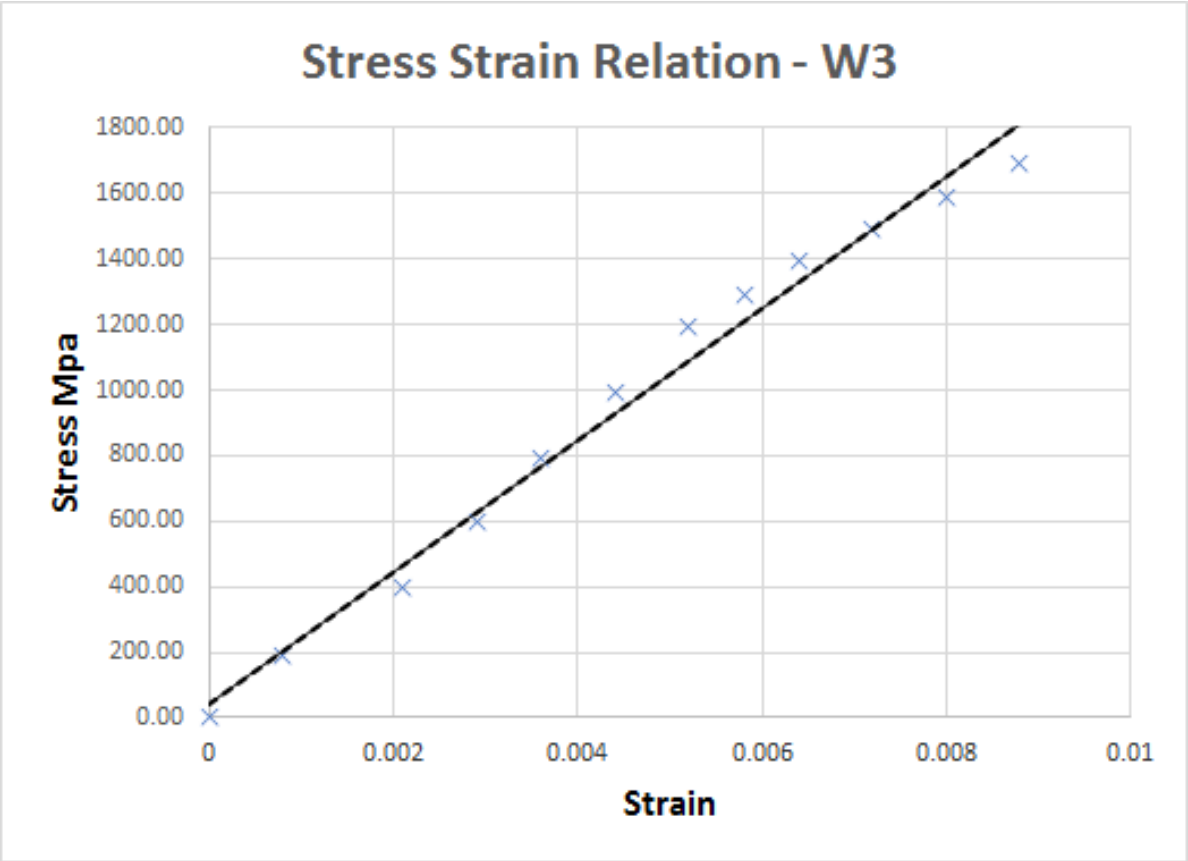
Test Performed and Verified by:

To,

Mr. Tanvir Ahmed Memon (Resident Engineer, GKBP)
Loya Associates JV Techno-Consult International (Pvt.) Ltd.
Bridge Over River Indus Connecting Ghotki With Kandhkot

Reference # CED/TFL **7243** (Dr. Rizwan Riaz) Dated: 21-07-2025
Reference of the request letter # RE/IE/GKBP/2025/393 Dated: 18-07-2025

Graph (Page – 4/4)



Test Performed and Verified by:

To,

Sub Divisional Officer
Building Sub Division, Kasur
Upgradation / Rehabilitation of Office Building for Deputy Director (DEV), Kasur

Reference # CED/TFL **7250** (Dr. Rizwan Riaz) Dated: 22-07-2025
Reference of the request letter # 288/K Dated: 06-05-2025

Tension Test Report (Page-1/1)

Date of Test 23-07-2025
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	35.00	52.70	71502	71866	107661	108209	1.2	15.0	3/8"
2	0.365	3	0.369	0.110	0.107	35.00	52.50	71502	73351	107252	110026	1.0	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,

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

Reference # CED/TFL **7253** (Dr. M. Kashif) Dated: 22-07-2025
Reference of the request letter # Nil Dated: 18-07-2025

Tension Test Report (Page -1/2)

Date of Test 23-07-2025
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**	**788.0**	**18800**	**184.43**	**19700**	**193.26**	**205**	**>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

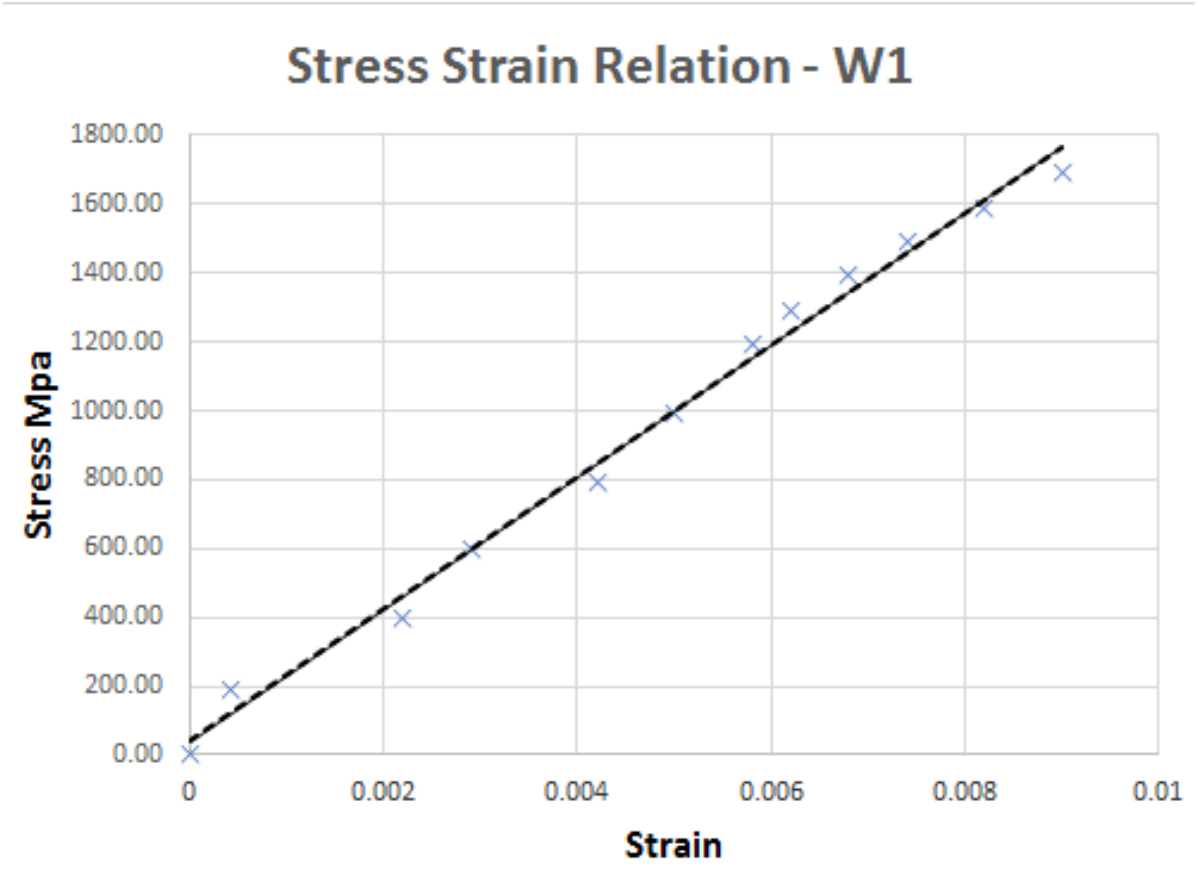
Test Performed and Verified by:

To,

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

Reference # CED/TFL **7253** (Dr. M. Kashif) Dated: 22-07-2025
Reference of the request letter # Nil Dated: 18-07-2025

Graph (Page – 2/2)



Test Performed and Verified by:

To,

Mr. Arsalan Khurshid
Sufi Muhammad Haroon Haris
Construction of Fauzia and Haris Residence at Green Fort-1 Raiwind Road, Lahore
(Sheikhoo Steel)

Reference # CED/TFL **7256** (Dr. M Kashif) Dated: 23-07-2025
Reference of the request letter # GreenFort-1/UET/SteelTest Dated: 23-07-2025

Tension Test Report

Date of Test 23-07-2025
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	**0.367**	**3**	**0.371**	**0.110**	**0.108**	**41.50**	**50.70**	**84780**	**86409**	**103575**	**105565**	**1.2**	**15.0**	-
2	**0.386**	**3**	**0.380**	**0.110**	**0.113**	**43.20**	**52.00**	**88253**	**85649**	**106231**	**103096**	**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,

Engr. Bilawal Mahmood (A/Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurement & Construction and Operatio & Maintenance of Ninteen (19) Districts (Smart Safe Cities Phase-II) Project for 19 District Phase-II (Kot Addu)

Reference # CED/TFL **7232** (Dr. Rizwan Riaz) Dated: 17-07-2025
Reference of the request letter # ECSP/PSCS/ARE/18 Dated: 11-05-2025

Tension Test Report (Page-1/2)

Date of Test 21-07-2025
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 (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	**0.364**	**10**	**0.369**	**0.120**	**0.107**	**36.70**	**48.00**	**68727**	**77067**	**89888**	**100796**	**1.3**	**16.3**	**Sheikoo Steel**
2	**0.364**	**10**	**0.369**	**0.120**	**0.107**	**36.70**	**48.00**	**68727**	**77019**	**89888**	**100734**	**1.2**	**15.0**	**Sheikoo Steel**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Javeed Aslam (Material Engineer)
Banu Mukhtar Contracting (Pvt.) Ltd.
Construction of Hyundai Nishat Expansion-FSD
(Ittehad Steel)

Reference # CED/TFL **7259** (Dr. Rizwan Riaz) Dated: 23-07-2025
Reference of the request letter # HNM/BMC/06/2025 Dated: 21-07-2025

Tension Test Report

Date of Test 23-07-2025
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 (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	**0.434**	**10**	**0.403**	**0.120**	**0.128**	**37.20**	**52.00**	**69663**	**65481**	**97378**	**91533**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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: