

To,
United Wire Industries (Pvt.) Ltd.

Reference # CED/TFL **7288** (Dr. Rizwan Riaz)
Reference of the request letter # UWIL/D

Dated: 29-07-2025
Dated: 28-07-2025

Tension Test Report (Page -1/1)

Date of Test 04-08-2025
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)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3"/8)	430.0	434.0	9100	89.27	9900	97.12	>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,
Engineers Associated Precast (Pvt.) Ltd.

Reference # CED/TFL **7289** (Dr. Rizwan Riaz)
Reference of the request letter # Nil

Dated: 29-07-2025
Dated: 25-07-2025

Tension Test Report (Page -1/1)

Date of Test 04-08-2025
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)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3"/8)	430.0	435.0	9600	94.18	11500	112.82	>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,
 Engr. Muhammad Irfan (Dy. Dir. Infra)
 M/s DHA Gujranwala
 Swapping Over of MDF Land With DHA Gwa

Reference # CED/TFL 7290 (Dr. Rizwan Riaz)
 Reference of the request letter # 111/DD/Infra/Lab/MDF/27

Dated: 29-07-2025
 Dated: 24-07-2025

Tension Test Report (Page-1/1)

Date of Test 04-08-2025
 Gauge Length 2 inches
 Description MS Pipe Strip Tensile 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	5.50 x 32.10	176.55	5710	8740	317.3	485.6	0.8	40.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Note: Only 1 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,

Mr. Anwar Ul Haq (Project Manager)
IKAN Engineering Services (Pvt.) Ltd.
Construction of Zong MSC Faisalabad (Ittehad Steel)
(Witness by: Mr. Ramzan, Site Engineer)

Reference # CED/TFL 7294 (Dr. M Kashif)
Reference of the request letter # IKAN-FSD-SITE-UET/024

Dated: 30-07-2025
Dated: 30-07-2025

Tension Test Report (Page-1/1)

Date of Test 04-08-2025
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 (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	30.50	44.70	62308	64577	91318	94642	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Sanwal Fawad (Manager QC)
 Izhar Engineering (Pvt). Ltd.
 Heat No. 3622655, LC. No. 1080LCS250033

Reference # CED/TFL 7307 (Dr. Rizwan Riaz)
 Reference of the request letter # IE-QC-32/25

Dated: 01-08-2025
 Dated: 31-07-2025

Tension Test Report (Page-1/1)

Date of Test 04-08-2025
 Gauge Length 2 inches
 Description MS Plate Strip Tensile 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 Plate 12mm	12.10 x 35.80	433.18	14680	182.2	332.5	4.1	0.9	45.0	TT-01
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Note: Only 1 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,
 Mr. Ilyas Majeed Sheikh (Chairman Eagle Developers)
 Dream Galleria
 Dream Galleria, Dream Gardens Lahore

Reference # CED/TFL 7313 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

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

Tension Test Report (Page-1/1)

Date of Test 04-08-2025
 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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.110	0.107	32.20	45.70	65781	67355	93361	95594	1.3	16.3	-
2	0.363	3	0.369	0.110	0.107	32.00	45.50	65373	67342	92952	95752	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Sabir Hussain (Chief Executive Officer)
BLTB Constructions Co. (Pvt.) Ltd.
Fabrication, Supply, Transportation, Construction and Erection of 210-Meter (689-Foot)
Span Suspension Bridge Between Sherorio-Batswat and Construction of Protection Works
Located at Immit Valley, District Ghizer, GB

Reference # CED/TFL **7315** (Dr. Rizwan Riaz)

Dated: 04-08-2025

Reference of the request letter # BLTB/GB/Request/AUG/2025/001

Dated: 04-08-2025

Tension Test Report (Page – 1/1)

Date of Test 04-08-2025

Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight			Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	(kg/m)	(kg)	
1	36	5757	109.4	5.26	61000	-
2	36	5740	109.0	5.27	60600	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only two samples for test						
-	-	-	-	-	-	-

Test Performed and Verified by:

To,

M. Sohaib Mughal (Director Operating)
Ibrahim Manufacturing Industries (Pvt.) Ltd.

Reference # CED/TFL **7319** (Dr. Safer Abbas)
Reference of the request letter # Nil

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

Weld Strength Report (Page – 1/1)

Date of Test 04-08-2025

Description Weld Strength of Steel Welded Parts

Welding Strength Test at Maximum Applied Load (100 kN)

Sr. No.	Description	Applied Load	Remarks
	Welded Setting (DB-15)	(kN)	
1	225A/9V	100.0	No breakage from weld
2	225A/9V	100.0	No breakage from weld
3	225A/9V	100.0	No breakage from weld
4	200A/9V	100.0	No breakage from weld
5	200A/9V	100.0	No breakage from weld
6	200A/9V	100.0	No breakage from weld
7	175A/9V	100.0	No breakage from weld
8	175A/9V	100.0	No breakage from weld
9	175A/9V	100.0	No breakage from weld
Only nine samples for test			

Test Performed and Verified by: