

Ref: CED/TFL/09/7566

Dated: 29-09-2025

Dated of Test: 02-10-2025 (Dr. Rizwan Riaz)

To

**Assistant Director (QCD)
Wasa, Lahore.**

Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE

(MARK: TFL/09/7566) (Page-1/1)

Reference to your Letter No. QCD/4146, Dated: 27/09/2025 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

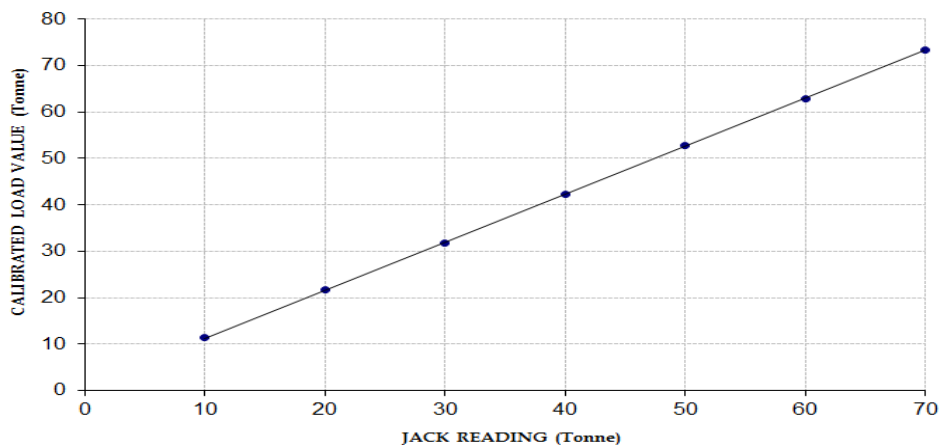
Total Range : Zero - 100 (Tonne)
Calibrated Range : Zero - 70 (Tonne)

Hydraulic Jack Reading (Tonne)	10	20	30	40	50	60	70	
Calibrated Load	(kg)	11400	21600	31800	42300	52800	62900	73400
	(Tonne)	11.40	21.60	31.80	42.30	52.80	62.90	73.40

1000 kg = 1 Tonne

Calibration Curve For Jack with Gauge

Calibrated Value (Tonne) = (1.0343 x Jack Reading (Tonne)) + 0.9429



Test Performed and Verified by:

To,

Assistant Project Director (PMU-SBP)

Project Management Unit

Construction of Hotel/Hostel at Nishter Park Sports Complex Lahore GS No. 290

Reference # CED/TFL

7574 (Dr. Rizwan Riaz)

Dated: 01-10-2025

Reference of the request letter #

APD/PMU/SBP/LHR/25/980

Dated: 16-09-2025

Tension Test Report

(Page-1/1)

Date of Test 02-10-2025

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	0.380	3	0.377	0.110	0.1117	3500	5400	70127	69059	108196	106548	1.5	18.8	3/8"
2	0.383	3	0.378	0.110	0.1125	3600	5400	72131	70546	108196	105819	1	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Wasim Khan
M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **7568** (Dr. Ali Ahmed)
Reference of the request letter # WRD/007

Dated: 30-09-2025
Dated: 29-09-2025

Tension Test Report (Page – 1/3)

Date of Test 02-10-2025

Description Steel Wire Rope (UG 1WRC) Tensile Test

Sr. No.	Nominal Diameter	Measured weight			Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	(kg/m)	(kg)	
1	12 (6*19)	699	121.0	0.58	9900	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for test						
-	-	-	-	-	-	-

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

Test Performed and Verified by:

To,

Mr. Muhammad Wasim Khan
M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **7568** (Dr. Ali Ahmed)
Reference of the request letter # WRD/008

Dated: 30-09-2025
Dated: 29-09-2025

Tension Test Report (Page – 2/3)

Date of Test 02-10-2025

Description Steel Wire Rope (UG 1WRC) Tensile Test

Sr. No.	Nominal Diameter	Measured weight			Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	(kg/m)	(kg)	
1	14 (6*19)	928	118.3	0.78	12500	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for test						
-	-	-	-	-	-	-

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

Test Performed and Verified by:

To,

Mr. Muhammad Wasim Khan
M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **7568** (Dr. Ali Ahmed)
Reference of the request letter # WRD/009

Dated: 30-09-2025
Dated: 29-09-2025

Tension Test Report (Page – 3/3)

Date of Test 02-10-2025

Description Steel Wire Rope (UG 1WRC) Tensile Test

Sr. No.	Nominal Diameter	Measured weight			Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	(kg/m)	(kg)	
1	18 (6*37)	1552	119.5	1.30	20200	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for test						
-	-	-	-	-	-	-

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

Test Performed and Verified by:

To,

Assistant Project Director (PMU-SBP)

Project Management Unit

Construction of Hotel/Hostel at Nishter Park Sports Complex Lahore GS No. 290

Reference # CED/TFL 7574 (Dr. Rizwan Riaz)

Dated: 01-10-2025

Reference of the request letter # APD/PMU/SBP/LHR/25/980

Dated: 16-09-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025

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	0.380	3	0.377	0.110	0.1117	3500	5400	70127	69059	108196	106548	1.5	18.8	3/8"
2	0.383	3	0.378	0.110	0.1125	3600	5400	72131	70546	108196	105819	1	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,

M/s AJ Contractor
Tawal Site ID: TWPBWP0020

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Reference # CED/TFL 7576 (Dr. Rizwan Riaz)
Reference of the request letter # AJContractor/Steel/Tawal/20

Dated: 01-10-2025
Dated: 01-10-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025
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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.364	10	0.369	0.120	0.1068	2700	4400	49590	55708	80813	90783	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test														

Test Performed and Verified by:

To,

Mr. Minhaj Khizer (Sr. Civil Engineer)
Style Textile (Pvt.) Ltd.
Construction of Bridge P3 to TOH

Reference # CED/TFL 7577 (Dr. Rizwan Riaz)
Reference of the request letter # Nil

Dated: 01-10-2025
Dated: 17-09-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025
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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.411	10	0.392	0.120	0.1206	4000	5000	73467	73075	91833	91343	1.3	16.3	-
2	0.406	10	0.390	0.120	0.1193	3900	5000	71630	72061	91833	92386	1.2	15.0	-
3	0.410	10	0.392	0.120	0.1205	3900	5000	71630	71345	91833	91468	1.1	13.8	-
4	0.410	10	0.392	0.120	0.1204	3900	5000	71630	71388	91833	91524	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 4 Samples for Tensile and 2 Samples for Bend test

Bend Test	
10mm Bar Bend Test Through 180 Degree is Satisfactory	
10mm Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,
 Procurement Manager
 Q-Links Property Construction Pvt. Ltd.
 Construction of Safari Home Bahria Orchard Lahore

Reference # CED/TFL 7578 (Dr. Rizwan Riaz)
 Reference of the request letter # QlinksOldSteel009BCC

Dated: 01-10-2025
 Dated: 30-09-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025
 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	0.359	3	0.366	0.110	0.1055	2900	4300	58105	60596	86156	89849	1	12.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,

Suprintendent

Central Jail Faisalabad

Construction of Additional Multi Storied Barracks in All Jails of Punjab to Accommodate 1000
Prisoner One at Central Jail Faisalabad GS. No.2646

Reference # CED/TFL 7579 (Dr. Rizwan Riaz)
Reference of the request letter # 24711-13

Dated: 01-10-2025

Dated: 30-09-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025

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	0.367	3	0.371	0.110	0.1078	3500	4700	70127	71549	94171	96080	1	12.5	-
2	0.373	3	0.374	0.110	0.1096	3400	4800	68124	68380	96175	96537	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,

Mr. Haroon ur Rasheed (Resident Engineer PCL)
PCL Khushab

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Reference # CED/TFL 7580 (Dr. Ali Ahmad)
Reference of the request letter # PCL/PL04/TUV/02

Dated: 01-10-2025

Dated: 22-09-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025

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 (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.406	10	0.390	0.120	0.1194	4300	5600	78977	79407	102853	103413	1.4	17.5	Heat#213 (27)
2	0.408	10	0.390	0.120	0.1197	4300	5600	78977	79143	102853	103070	1.3	16.3	Heat#213 (27)
3	0.406	10	0.390	0.120	0.1194	4400	5700	80813	81206	104690	105199	0.9	11.3	Heat#212 (28)
4	0.404	10	0.389	0.120	0.1187	4200	5500	77140	77988	101017	102128	1.2	15.0	Heat#212 (28)
5	0.411	10	0.3923	0.120	0.1209	4200	5400	77140	76589	99180	98472	1.2	15	Heat#218 (29)
6	0.409	10	0.3912	0.120	0.1202	4200	5400	77140	77008	99180	99010	1.2	15	Heat#218 (29)

Note: Only 6 Samples for Tensile and 3 Samples for Bend test

Bend Test	
10mm Bar Bend Test Through 180 Degree is Satisfactory	
10mm Bar Bend Test Through 180 Degree is Satisfactory	
10mm Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,
 Memar Associates
 UBL Susan Road, Fsd

Reference # CED/TFL 7583 (Dr. Rizwan Riaz)
 Reference of the request letter # Memar/UBL/S-02

Dated: 02-10-2025
 Dated: 01-10-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025
 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	0.366	3	0.370	0.110	0.1076	3800	4900	76138	77810	98178	100333	1.2	15.0	-
2	0.376	3	0.375	0.110	0.1104	3800	4900	76138	75838	98178	97791	1	12.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,
 Memar Associates
 UBL Wapda City, Fsd

Reference # CED/TFL 7584 (Dr. Rizwan Riaz)
 Reference of the request letter # Memar/UBL/WC02

Dated: 02-10-2025
 Dated: 01-10-2025

Tension Test Report (Page-1/1)

Date of Test 02-10-2025
 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	0.364	3	0.369	0.110	0.1068	3800	4900	76138	78390	98178	101082	1	12.5	-
2	0.365	3	0.370	0.110	0.1073	3600	4900	72131	73949	98178	100652	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: