

To,

Mr. M. Armughan Khan (Deputy Director QCD)

WASA, Lahore

M/s Eddco Construction (Pvt.) Ltd. & Anem Construction Services) To Establish Project-Specific
Pipe Factory Manufacturing of RCC Pipes

Reference # CED/TFL 7032 (Dr. Rizwan Riaz)

Dated: 29-05-2025

Reference of the request letter # QCD/2382

Dated: 26-05-2025

Tension Test Report (Page-1/3)

Date of Test 02-06-2025

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	0.331	3	0.352	0.110	0.097	3200	3900	64116	72585	78142	88463	1.2	15.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. Armaghuan Khan (Deputy Director QCD)

WASA, Lahore

M/s Eddco Construction (Pvt.) Ltd. & Anem Construction Services) To Establish Project-Specific Pipe Factory Manufacturing of RCC Pipes

Reference # CED/TFL **7032** (Dr. Rizwan Riaz)

Reference of the request letter # QCD/2381

Dated: 29-05-2025

Dated: 26-05-2025

Tension Test Report (Page -2/3)

Date of Test 02-06-2025

Gauge length 8 inches

Description Tensile Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (Inch)	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.240	1/4	0.300	-	0.071	2160	3000	-	67440	-	93700	1.40	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only one sample for tensile and one for bend test														
Bend Test														
#1/4 Bar Bend Test Through 180° is Satisfactory														

Test Performed and Verified by:

To,

Mr. Armghugan Khan (Deputy Director QCD)

WASA, Lahore

M/s Eddco Construction (Pvt.) Ltd. & Anem Construction Services) To Establish Project-Specific Pipe Factory Manufacturing of RCC Pipes

Reference # CED/TFL **7032** (Dr. Rizwan Riaz)

Dated: 29-05-2025

Reference of the request letter # QCD/2380

Dated: 26-05-2025

Tension Test Report (Page -3/3)

Date of Test 02-06-2025

Gauge length 8 inches

Description Tensile Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (Inch)	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.069	5/32	0.160		0.020	800	960		87260		104800	0.80	10.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only one sample for tensile and one for bend test														
Bend Test														
#5/32 Bar Bend Test Through 180° is Satisfactory														

Test Performed and Verified by:

To,
 Minhas Construction Contractor
 Real Estate & Builders
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Reference # CED/TFL 7033 (Dr. Rizwan Riaz)
 Reference of the request letter # MCC/CFL/025

Dated: 29-05-2025
 Dated: 29-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.397	10	0.385	0.120	0.117	3000	3900	55100	56667	71630	73667	1.5	18.8	-
2	0.379	10	0.377	0.120	0.111	3400	4700	62447	67269	86323	92990	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,
 Sub Divisional Officer
 Buildings Sub Division, Jhang
 Construction of PDMA Warehouse at Jhang

Reference # CED/TFL 7035 (Dr. Rizwan Riaz)
 Reference of the request letter # 1648

Dated: 29-05-2025
 Dated: 17-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.107	3400	4500	68124	69968	90164	92604	1.3	16.3	3"/8
2	0.367	3	0.370	0.110	0.108	3400	4500	68124	69535	90164	92032	1.4	17.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test

Test Performed and Verified by:

To,
 Syed Suleman Haider (Resident Engineer)
 Engineering Consultancy Services Punjab (Pvt.) Ltd.
 Integrated Public Transport Network in Islamabad
 Construction of Bus Depot and Allied Works at Zero Point

Reference # CED/TFL **7036** (Dr. Rizwan Riaz)
 Reference of the request letter # ECSP/RE/IPTN/ZP/47

Dated: 29-05-2025
 Dated: 23-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report (Steel Plates)

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	16mm	16.00 x 24.70	395.20	13500	18800	335.1	466.7	0.7	35.0	-
2	25mm	24.50 x 24.70	605.15	16500	26900	267.5	436.1	0.8	40.0	-
3	30mm	29.60 x 24.50	725.20	18600	30600	251.6	413.9	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Note: Only 3 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,
 Mr. Muhammad Nadeem Akhtar (Resident Engineer)
 Nespak Pvt. Ltd.
 Lahore Ring Road Southern Loop (SL-3) Project

Reference # CED/TFL **7037** (Dr. Rizwan Riaz)
 Reference of the request letter # Nespak/LRRA/MNA/SL-3/245

Dated: 29-05-2025
 Dated: 27-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Angle Iron Steel Strips 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 Sheet 06 mm	6.10 x 27.70	168.97	5600	7800	325.1	452.8	0.7	35.0	-
2	MS Sheet 06 mm	6.10 x 27.70	168.97	5000	7900	290.3	458.7	0.8	40.0	-
3	MS Sheet 10 mm	9.90 x 35.60	352.44	10000	13300	278.3	370.2	0.9	45.0	-
4	MS Sheet 10 mm	10.00 x 35.00	350.00	9900	13200	277.5	370.0	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 4 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,

Mr. Murad Ali
Material Engineer,
Minconsult SDN BHD Joint Venture
Creative Engineering Consultants (PMCSC)

Reference # CED/TFL **7038** (Dr. M. Rizwan Riaz)

Dated: 30-05-2025

Reference of the request letter # KPCIP/PMCSC/ME/ATD/LOT-1/2025/62

Dated: 30-05-2025

Tension Test Report (Page – 1/1)

Date of Test 02-06-2025

Description Steel Wire Rope Tensile Test (**Zipline Galvanised HT Wire 7*19**)

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14	0.72	10100	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Only one sample for Test				

Test Performed and Verified by:

To,
 Engr. Barkat Leghari (Structural and Design Engineer PSBA)
 Punjab Sahulat Bazaars Authority, Government of the Punjab
 Construction of Model Bazaar Chiniot (For Column & Rafters)

Reference # CED/TFL 7041 (Dr. Rizwan Riaz)
 Reference of the request letter # SE/PSBA/29/5/2025

Dated: 30-05-2025
 Dated: 29-05-2025

Tension Test Report (Page-1/2)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report (HR Material)

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	HR 6 mm	6.20 x 31.60	195.92	5500	8300	275.4	415.6	0.9	45.0	-
2	HR 8 mm	8.10 x 31.80	257.58	7700	11700	293.3	445.6	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,
 Engr. Barkat Leghari (Structural and Design Engineer PSBA)
 Punjab Sahulat Bazaars Authority, Government of the Punjab
 Construction of Model Bazaar Bhalwal (For Column & Rafters)

Reference # CED/TFL **7041** (Dr. Rizwan Riaz)
 Reference of the request letter # SE/PSBA/2/5/2025

Dated: 30-05-2025
 Dated: 29-05-2025

Tension Test Report (Page-2/2)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report (HR Material)

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	HR 6 mm	6.10 x 31.50	192.15	5500	8400	280.8	428.9	0.9	45.0	-
2	HR 8 mm	8.30 x 31.60	262.28	7800	11800	291.7	441.4	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,
 Mr. Imran Arshad
 Prime Construction
 House # 53 Cavilary Green Burki Road Lahore
 Hunza Steel

Reference # CED/TFL 7045 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 30-05-2025
 Dated: 30-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.369	3	0.372	0.110	0.108	3400	4600	68124	69076	92167	93456	1.1	13.8	-
2	0.368	3	0.371	0.110	0.108	3300	4500	66120	67244	90164	91696	1.3	16.3	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, Shahpur
Construction of Record Room at Judicial Complex Sahiwal District Sargodha

Reference # CED/TFL 7046 (Dr. Rizwan Riaz)
Reference of the request letter # E-24223/SHP

Dated: 30-05-2025
Dated: 16-05-2025

Tension Test Report (Page-1/2)

Date of Test 02-06-2025
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	0.377	3	0.376	0.110	0.111	3900	6700	78142	77572	134244	133264	0.7	8.8	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test														

Test Performed and Verified by:

To,

Sub Divisional Officer
Buildings Sub Division, Shahpur
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. for the Year 2024-2025)

Reference # CED/TFL 7046 (Dr. Rizwan Riaz)
Reference of the request letter # E-24/214/SHP

Dated: 30-05-2025
Dated: 10-05-2025

Tension Test Report (Page-2/2)

Date of Test 02-06-2025
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	0.378	3	0.376	0.110	0.111	4000	5100	80145	79359	102185	101182	1	12.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
Sub Divisional Officer
Buildings Sub Division, Sargodha
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. 579 for the Year 2024-2025)

Reference # CED/TFL
Reference of the request letter #

7047 (Dr. Rizwan Riaz)

333/SGD

Dated: 30-05-2025
Dated: 21-05-2024

Tension Test Report

(Page-1/1)

Date of Test
Gauge Length
Description

02-06-2025
8 inches
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3	0.376	0.110	0.111	3200	4800	64116	63433	96175	95150	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Sub Divisional Officer

Buildings Sub Division, Sillanwali

Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (Shaheenabad)

Reference # CED/TFL 7048 (Dr. Rizwan Riaz)

Dated: 30-05-2025

Reference of the request letter # 124/Sillanwali

Dated: 17-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025

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	0.378	3	0.376	0.110	0.111	3400	4600	68124	67459	92167	91268	1	12.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Sub Divisional Officer
Buildings Sub Division, Bhalwal
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. 579 for the Year 2024-25)

Reference # CED/TFL 7049 (Dr. Rizwan Riaz)
Reference of the request letter # 850/BHL

Dated: 30-05-2025
Dated: 07-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
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	0.377	3	0.376	0.110	0.111	3500	5000	70127	69577	100182	99396	1.2	15.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
Sub Divisional Officer
Buildings Sub Division, Kotmomin
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. 579 for the Year 2024-25)

Reference # CED/TFL 7050 (Dr. Rizwan Riaz)
Reference of the request letter # 522/Kotmomin

Dated: 30-05-2025
Dated: 07-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.405	3	0.389	0.110	0.119	3600	4500	72131	66671	90164	83339	1.7	21.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
 Mr. Imran Arshad
 Prime Construction
 House # 53 Cavilary Green Burki Road Lahore
 Hunza Steel

Reference # CED/TFL 7045 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 30-05-2025
 Dated: 30-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.369	3	0.372	0.110	0.108	3400	4600	68124	69076	92167	93456	1.1	13.8	-
2	0.368	3	0.371	0.110	0.108	3300	4500	66120	67244	90164	91696	1.3	16.3	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,

Mr. M. Armughan Khan (Deputy Director QCD)

WASA, Lahore

M/s Eddco Construction (Pvt.) Ltd. & Anem Construction Services) To Establish Project-Specific
Pipe Factory Manufacturing of RCC Pipes

Reference # CED/TFL 7032 (Dr. Rizwan Riaz)

Dated: 29-05-2025

Reference of the request letter # QCD/2382

Dated: 26-05-2025

Tension Test Report (Page-1/3)

Date of Test 02-06-2025

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	0.331	3	0.352	0.110	0.097	3200	3900	64116	72585	78142	88463	1.2	15.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. Armghugan Khan (Deputy Director QCD)

WASA, Lahore

M/s Eddco Construction (Pvt.) Ltd. & Anem Construction Services) To Establish Project-Specific Pipe Factory Manufacturing of RCC Pipes

Reference # CED/TFL **7032** (Dr. Rizwan Riaz)

Reference of the request letter # QCD/2381

Dated: 29-05-2025

Dated: 26-05-2025

Tension Test Report (Page -2/3)

Date of Test 02-06-2025

Gauge length 8 inches

Description Tensile Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (Inch)	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.240	1/4	0.300	-	0.071	2160	3000	-	67440	-	93700	1.40	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only one sample for tensile and one for bend test														
Bend Test														
#1/4 Bar Bend Test Through 180° is Satisfactory														

Test Performed and Verified by:

To,

Mr. Armghugan Khan (Deputy Director QCD)

WASA, Lahore

M/s Eddco Construction (Pvt.) Ltd. & Anem Construction Services) To Establish Project-Specific Pipe Factory Manufacturing of RCC Pipes

Reference # CED/TFL **7032** (Dr. Rizwan Riaz)

Dated: 29-05-2025

Reference of the request letter # QCD/2380

Dated: 26-05-2025

Tension Test Report (Page -3/3)

Date of Test 02-06-2025

Gauge length 8 inches

Description Tensile Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (Inch)	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.069	5/32	0.160		0.020	800	960		87260		104800	0.80	10.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only one sample for tensile and one for bend test														
Bend Test														
#5/32 Bar Bend Test Through 180° is Satisfactory														

Test Performed and Verified by:

To,
 Minhas Construction Contractor
 Real Estate & Builders
 -

Reference # CED/TFL 7033 (Dr. Rizwan Riaz)
 Reference of the request letter # MCC/CFL/025

Dated: 29-05-2025
 Dated: 29-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.397	10	0.385	0.120	0.117	3000	3900	55100	56667	71630	73667	1.5	18.8	-
2	0.379	10	0.377	0.120	0.111	3400	4700	62447	67269	86323	92990	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,
 Sub Divisional Officer
 Buildings Sub Division, Jhang
 Construction of PDMA Warehouse at Jhang

Reference # CED/TFL 7035 (Dr. Rizwan Riaz)
 Reference of the request letter # 1648

Dated: 29-05-2025
 Dated: 17-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.107	3400	4500	68124	69968	90164	92604	1.3	16.3	3"/8
2	0.367	3	0.370	0.110	0.108	3400	4500	68124	69535	90164	92032	1.4	17.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test

Test Performed and Verified by:

To,
 Syed Suleman Haider (Resident Engineer)
 Engineering Consultancy Services Punjab (Pvt.) Ltd.
 Integrated Public Transport Network in Islamabad
 Construction of Bus Depot and Allied Works at Zero Point

Reference # CED/TFL **7036** (Dr. Rizwan Riaz)
 Reference of the request letter # ECSP/RE/IPTN/ZP/47

Dated: 29-05-2025
 Dated: 23-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report (Steel Plates)

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	16mm	16.00 x 24.70	395.20	13500	18800	335.1	466.7	0.7	35.0	-
2	25mm	24.50 x 24.70	605.15	16500	26900	267.5	436.1	0.8	40.0	-
3	30mm	29.60 x 24.50	725.20	18600	30600	251.6	413.9	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Note: Only 3 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,
 Mr. Muhammad Nadeem Akhtar (Resident Engineer)
 Nespak Pvt. Ltd.
 Lahore Ring Road Southern Loop (SL-3) Project

Reference # CED/TFL **7037** (Dr. Rizwan Riaz)
 Reference of the request letter # Nespak/LRRA/MNA/SL-3/245

Dated: 29-05-2025
 Dated: 27-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Angle Iron Steel Strips 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 Sheet 06 mm	6.10 x 27.70	168.97	5600	7800	325.1	452.8	0.7	35.0	-
2	MS Sheet 06 mm	6.10 x 27.70	168.97	5000	7900	290.3	458.7	0.8	40.0	-
3	MS Sheet 10 mm	9.90 x 35.60	352.44	10000	13300	278.3	370.2	0.9	45.0	-
4	MS Sheet 10 mm	10.00 x 35.00	350.00	9900	13200	277.5	370.0	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 4 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,

Mr. Murad Ali
Material Engineer,
Minconsult SDN BHD Joint Venture
Creative Engineering Consultants (PMCSC)

Reference # CED/TFL **7038** (Dr. M. Rizwan Riaz)

Dated: 30-05-2025

Reference of the request letter # KPCIP/PMCSC/ME/ATD/LOT-1/2025/62

Dated: 30-05-2025

Tension Test Report (Page – 1/1)

Date of Test 02-06-2025

Description Steel Wire Rope Tensile Test (**Zipline Galvanised HT Wire 7*19**)

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14	0.72	10100	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Only one sample for Test				

Test Performed and Verified by:

To,
 Engr. Barkat Leghari (Structural and Design Engineer PSBA)
 Punjab Sahulat Bazaars Authority, Government of the Punjab
 Construction of Model Bazaar Chiniot (For Column & Rafters)

Reference # CED/TFL 7041 (Dr. Rizwan Riaz)
 Reference of the request letter # SE/PSBA/29/5/2025

Dated: 30-05-2025
 Dated: 29-05-2025

Tension Test Report (Page-1/2)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report (HR Material)

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	HR 6 mm	6.20 x 31.60	195.92	5500	8300	275.4	415.6	0.9	45.0	-
2	HR 8 mm	8.10 x 31.80	257.58	7700	11700	293.3	445.6	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,
 Engr. Barkat Leghari (Structural and Design Engineer PSBA)
 Punjab Sahulat Bazaars Authority, Government of the Punjab
 Construction of Model Bazaar Bhalwal (For Column & Rafters)

Reference # CED/TFL **7041** (Dr. Rizwan Riaz)
 Reference of the request letter # SE/PSBA/2/5/2025

Dated: 30-05-2025
 Dated: 29-05-2025

Tension Test Report (Page-2/2)

Date of Test 02-06-2025
 Gauge Length 2 inches
 Description Strips Tensile Test Report (HR Material)

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	HR 6 mm	6.10 x 31.50	192.15	5500	8400	280.8	428.9	0.9	45.0	-
2	HR 8 mm	8.30 x 31.60	262.28	7800	11800	291.7	441.4	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,
 Mr. Imran Arshad
 Prime Construction
 House # 53 Cavilary Green Burki Road Lahore
 Hunza Steel

Reference # CED/TFL 7045 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 30-05-2025
 Dated: 30-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.369	3	0.372	0.110	0.108	3400	4600	68124	69076	92167	93456	1.1	13.8	-
2	0.368	3	0.371	0.110	0.108	3300	4500	66120	67244	90164	91696	1.3	16.3	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, Shahpur
Construction of Record Room at Judicial Complex Sahiwal District Sargodha

Reference # CED/TFL 7046 (Dr. Rizwan Riaz)
Reference of the request letter # E-24223/SHP

Dated: 30-05-2025
Dated: 16-05-2025

Tension Test Report (Page-1/2)

Date of Test 02-06-2025
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	0.377	3	0.376	0.110	0.111	3900	6700	78142	77572	134244	133264	0.7	8.8	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
 Sub Divisional Officer
 Buildings Sub Division, Shahpur
 Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. for the Year 2024-2025)

Reference # CED/TFL

7046 (Dr. Rizwan Riaz)

Dated: 30-05-2025

Reference of the request letter #

E-24/214/SHP

Dated: 10-05-2025

Tension Test Report (Page-2/2)

Date of Test02-06-2025

Gauge Length8 inches

DescriptionDeformed 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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3	0.376	0.110	0.111	4000	5100	80145	79359	102185	101182	1	12.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
Sub Divisional Officer
Buildings Sub Division, Sargodha
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. 579 for the Year 2024-2025)

Reference # CED/TFL
Reference of the request letter #

7047 (Dr. Rizwan Riaz)

333/SGD

Dated: 30-05-2025
Dated: 21-05-2024

Tension Test Report

(Page-1/1)

Date of Test
Gauge Length
Description

02-06-2025
8 inches
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3	0.376	0.110	0.111	3200	4800	64116	63433	96175	95150	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Sub Divisional Officer

Buildings Sub Division, Sillanwali

Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (Shaheenabad)

Reference # CED/TFL 7048 (Dr. Rizwan Riaz)

Dated: 30-05-2025

Reference of the request letter # 124/Sillanwali

Dated: 17-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025

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	0.378	3	0.376	0.110	0.111	3400	4600	68124	67459	92167	91268	1	12.5	3"/8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Sub Divisional Officer
Buildings Sub Division, Bhalwal
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. 579 for the Year 2024-25)

Reference # CED/TFL 7049 (Dr. Rizwan Riaz)
Reference of the request letter # 850/BHL

Dated: 30-05-2025
Dated: 07-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
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	0.377	3	0.376	0.110	0.111	3500	5000	70127	69577	100182	99396	1.2	15.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
Sub Divisional Officer
Buildings Sub Division, Kotmomin
Program for Revamping of Basic Health Units (BHUS) of North and Central Punjab (Phase-II). Basic Health Units of District Sargodha (ADP No. 579 for the Year 2024-25)

Reference # CED/TFL 7050 (Dr. Rizwan Riaz)
Reference of the request letter # 522/Kotmomin

Dated: 30-05-2025
Dated: 07-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
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	0.405	3	0.389	0.110	0.119	3600	4500	72131	66671	90164	83339	1.7	21.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test														

Test Performed and Verified by:

To,
 Mr. Imran Arshad
 Prime Construction
 House # 53 Cavilary Green Burki Road Lahore
 Hunza Steel

Reference # CED/TFL 7045 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 30-05-2025
 Dated: 30-05-2025

Tension Test Report (Page-1/1)

Date of Test 02-06-2025
 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	0.369	3	0.372	0.110	0.108	3400	4600	68124	69076	92167	93456	1.1	13.8	-
2	0.368	3	0.371	0.110	0.108	3300	4500	66120	67244	90164	91696	1.3	16.3	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: