

To,

Mr. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House Alpha Block (House No. A-1 & A-2) at PAF Base Rafiqui.

CA No. CEAF-DE-28/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6000/E-6

Dated: 22-09-2025

Tension Test Report (Page-1/14)

Date of Test 01-10-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.346	3	0.360	0.110	0.1018	35.50	44.50	72523	78378	90909	98248	1.0	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House Bravo Block (House No. B-1 & B-2) at PAF Base Rafiqui.

CA No. CEAF-DE-29/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6001/E-6

Dated: 22-09-2025

Tension Test Report (Page-2/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.343	3	0.358	0.110	0.1008	33.70	43.70	68846	75129	89275	97423	1.0	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House Charlie Block (House No. C-1 & C-2) at PAF Base Rafiqui.

CA No. CEAF-DE-30/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6002/E-6

Dated: 22-09-2025

Tension Test Report (Page-3/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.352	3	0.363	0.110	0.1034	33.50	43.70	68437	72821	89275	94994	0.9	11.3	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Delta Block (House No. D-1 & D-2) at PAF Base Rafiqui.

CA No. CEAF-DE-24/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6003/E-6

Dated: 22-09-2025

Tension Test Report (Page-4/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.347	3	0.360	0.110	0.1019	32.70	43.00	66803	72085	87845	94790	1.1	13.8	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Echo Block (House No. E-1 & E-2) at PAF Base Rafiqui.

CA No. CEAF-DE-25/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6004/E-6

Dated: 22-09-2025

Tension Test Report (Page-5/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3	0.377	0.110	0.1117	35.70	46.70	72932	71807	95403	93933	1.0	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Foxtrot Block (House No. F-1 & F-2) at PAF Base Rafiqui.

CA No. CEAF-DE-26/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6005/E-6

Dated: 22-09-2025

Tension Test Report (Page-6/14)

Date of Test 01-10-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.382	3	0.378	0.110	0.1124	35.20	46.70	71910	70391	95403	93388	1.1	13.8	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Golf Block (House No. G-1 & G-2) at PAF Base Rafiqui.

CA No. CEAF-DE-27/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6006/E-6

Dated: 22-09-2025

Tension Test Report (Page-7/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.380	3	0.377	0.110	0.1116	36.20	46.70	73953	72905	95403	94052	1.1	13.8	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Osca Block (House No. O-1 & O-2) at PAF Base Rafiqui.

CA No. CEAF-DE-33/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6009/E-6

Dated: 22-09-2025

Tension Test Report (Page-8/14)

Date of Test 01-10-2025

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	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	0.1094	35.50	46.70	72523	72935	95403	95946	1.0	12.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Qubic Block (House No. Q-1 & Q-2) at PAF Base Rafiqui.

CA No. CEAF-DE-34/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6010/E-6

Dated: 22-09-2025

Tension Test Report (Page-9/14)

Date of Test 01-10-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.358	3	0.366	0.110	0.1052	34.20	46.70	69867	73082	95403	99794	1.2	15.0	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Romio Block (House No. R-1 & R-2) at PAF Base Rafiqui.

CA No. CEAF-DE-35/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6011/E-6

Dated: 22-09-2025

Tension Test Report (Page-10/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.354	3	0.364	0.110	0.104	26.20	39.70	53524	56589	81103	85748	1.3	16.3	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Vector Block (House No. V-1 & V-2) at PAF Base Rafiqui.

CA No. CEAF-DE-38/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6012/E-6

Dated: 22-09-2025

Tension Test Report (Page-11/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.350	3	0.362	0.110	0.1028	25.20	39.20	51481	55109	80082	85725	1.4	17.5	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Tango Block (House No. T-1 & T-2) at PAF Base Rafiqui.

CA No. CEAF-DE-37/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6013/E-6

Dated: 22-09-2025

Tension Test Report (Page-12/14)

Date of Test 01-10-2025

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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.374	3	0.374	0.110	0.1098	25.50	38.00	52094	52170	77630	77744	1.6	20.0	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)

GE (Air) Rafiqui

Construction of 02 x Smart House, Siera Block (House No. S-1 & S-2) at PAF Base Rafiqui.

CA No. CEAF-DE-36/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)

Dated: 25-09-2025

Reference of the request letter # 6014/E-6

Dated: 22-09-2025

Tension Test Report (Page-13/14)

Date of Test 01-10-2025

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	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	24.70	37.20	50460	51412	75996	77431	1.6	20.0	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Hamid Javid (AE B&R)
 GE (Air) Rafiqui
 Rehabilitation / Uplifting of Secondary School (B-1 & B-2) at PAF Base Rafiqui
 CA No. CEAF-DE-16/2026

Reference # CED/TFL 7551 (Dr. Usman Akmal)
 Reference of the request letter # 6015/E-6

Dated: 25-09-2025
 Dated: 22-09-2025

Tension Test Report (Page-14/14)

Date of Test 01-10-2025
 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 (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	0.1075	43.50	53.20	88866	90943	108682	111222	0.8	10.0	3/8"
2	0.365	3	0.370	0.110	0.1073	37.70	49.20	77017	78968	100511	103056	0.9	11.3	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,

Engr. Farrukh Alvi (Deputy General Manager Works)
Habib Rafiq Engineering (Pvt.) Ltd.
101 Tower, Lahore
(Hunza Steel)

Reference # CED/TFL 7558 (Dr. Usman Akmal)
Reference of the request letter # HRLE/SKG/2025/Hunza/32-1.965/234

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

Tension Test Report (Page-1/1)

Date of Test 01-10-2025
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	4.231	32	1.258	1.250	1.2432	41400	55800	72996	73395	98387	98923	1.4	17.5	-
2	4.179	32	1.250	1.250	1.2281	47000	57400	82870	84350	101208	103014	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test	
32mm Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,

Mr. Altaf Hussain (Resident Engineer-2)
Barqaab Consulting Services
Construction of PERA Enforcement Station in Tehsil Kasur
(AF Steel)

Reference # CED/TFL 7565 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 29-09-2025
Dated: 24-09-2025

Tension Test Report (Page-1/1)

Date of Test 01-10-2025
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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.375	0.110	0.1107	36.50	47.70	74566	74100	97446	96837	0.8	10.0	-
2	0.379	3	0.376	0.110	0.1113	32.00	41.70	65373	64618	85189	84206	0.8	10.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Waseem Azhar (Assistant Director QCD)
Wasa, Lahore
M/s Shezone Pipe Industry

Reference # CED/TFL 7567 (Dr. Usman Akmal)
Reference of the request letter # QCD/4144

Dated: 29-09-2025
Dated: 27-09-2025

Tension Test Report (Page-1/3)

Date of Test 01-10-2025
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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.110	0.1093	30.00	44.70	61287	61659	91318	91871	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,
 Mr. M. Waseem Azhar (Assistant Director QCD)
 Wasa, Lahore
 M/S. Shezone RCC Pipe Industry

Reference # CED/TFL 7567 (Dr. Usman Akmal)
 Reference of the request letter # QCD/3139

Dated: 29-09-2025
 Dated: 16-07-2025

Tension Test Report (Page-2/3)

Date of Test 01-10-2025
 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 (kN)	Breaking Load (kN)	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	33.20	41.70	67824	69702	85189	87548	0.8	10.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. M. Waseem Azhar (Assistant Director QCD)
 Wasa, Lahore
 M/S. Shezone RCC Pipe Industry

Reference # CED/TFL 7567 (Dr. Usman Akmal)
 Reference of the request letter # QCD/3679

Dated: 29-09-2025
 Dated: 23-09-2025

Tension Test Report (Page-3/3)

Date of Test 01-10-2025
 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 (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	0.1076	35.50	44.20	72523	74115	90296	92278	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,
Zeeshan & Co.

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Reference # CED/TFL 7569 (Dr. Usman Akmal)
Reference of the request letter # Nil

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

Tension Test Report (Page-1/1)

Date of Test 01-10-2025
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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3	0.372	0.110	0.1084	31.50	43.20	64351	65281	88253	89529	1.4	17.5	-
2	0.369	3	0.371	0.110	0.1083	32.20	43.50	65781	66791	88866	90230	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,

Engr. Sheraz (Site Engineer)
ABS Developers (Pvt.) Ltd.
Pearl One Courtyard 1,2 Bahria Town, Lahore

Reference # CED/TFL 7570 (Dr. Rizwan Riaz)
Reference of the request letter # Nil

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

Tension Test Report (Page-1/1)

Date of Test 01-10-2025
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	0.372	3	0.373	0.110	0.1094	3230	4330	64717	65064	86757	87222	1.3	16.3	-
2	0.372	3	0.373	0.110	0.1093	3210	4330	64317	64724	86757	87307	1	12.5	-
3	4.173	10	1.250	1.270	1.2263	35600	50400	61781	63983	87466	90582	1.2	15.0	-
4	4.118	10	1.241	1.270	1.2099	35200	50200	61087	64120	87119	91444	1.6	20.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	
# 10 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,

M/s Sinaco Engineers (Pvt.) Ltd.
Construction of Biomass Boiler of Ittehad Chemical Industries

Reference # CED/TFL **7571** (Dr. Usman Akmal)
Reference of the request letter # 00500-2025

Dated: 30-09-2025
Dated: 27-09-2025

Tension Test Report (Page – 1/1)

Date of Test 01-10-2025
Gauge length 8 inches
Description Steel Specimen Tensile Test

Sr. No.	Diameter / size	Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	Elongation	Marks
	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inches)	%	
1	32.00	804.25	36000	59200	439	722	1.40	17.50	45mm
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only one sample for tensile test

Test Performed and Verified by:

To,

Mr. Altaf Hussain (Resident Engineer-2)
Barqaab Consulting Services
Construction of PERA Station in Tehsil Shalamar
(FF Steel)

Reference # CED/TFL

7572 (Dr. Usman Akmal)

Dated: 03-10-2025

Reference of the request letter #

PM(BQB)-PERA-ES Shalamar/RELhr/05-08

Dated: 24-09-2025

Tension Test Report

(Page-1/1)

Date of Test

01-10-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.356	3	0.365	0.110	0.1047	30.20	40.50	61696	64801	82737	86902	1.2	15.0	-
2	0.358	3	0.366	0.110	0.1051	30.20	40.70	61696	64561	83146	87008	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. Muhammad Farooq Awan (Project Manager)
AAA Partnership (Pvt.) Ltd.
JDW Tower, Lahore

Reference # CED/TFL 7573 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 30-09-2025

Dated: 30-09-2025

Tension Test Report (Page-1/1)

Date of Test 01-10-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	3	0.372	0.110	0.1087	29.50	43.70	60266	60965	89275	90311	1.6	20.0	-
2	0.368	3	0.371	0.110	0.1082	30.00	43.00	61287	62281	87845	89269	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. Sohail Ahmad
Building Standards Ltd
SBP Building Multan
(Used Samples)

Reference # CED/TFL 7575 (Dr. Usman Akmal)
Reference of the request letter # Nil

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

Tension Test Report (Page-1/1)

Date of Test 01-10-2025
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	3.427	28	1.132	0.950	1.007	30000	35800	69600	65660	83056	78354	1.3	16.3	2nd Flr O/38
2	3.461	28	1.138	0.950	1.0169	27800	36600	64496	60255	84912	79328	1.3	16.3	2nd Flr GR-41
3	3.488	28	1.142	0.950	1.0248	29400	37400	68208	63226	86768	80431	1	12.5	Roof Column
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test														

Test Performed and Verified by: