



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer-II
 MM Pakistan (Pvt) Ltd
 Disaster & Climate Resilience Improvement Project. Enhancing Resilience of Right
 Embankment of Shujabad Branch from RD 260+000 to RD 279+000 against Seepage During
 High Floods in River Chenab.
 Reference # CED/TFL **36618** (Dr. Qasim Khan) Dated: 22-06-2021
 Reference of the request letter # DCRIP/RE-II/Shujabad/080 Dated: 09-06-2021

Tension Test Report (Page – 1/1)

Date of Test 05-07-2021
 Gauge length 2 inches
 Description Sheet Pile Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Sheet Pipe	26.80x6.20	166.16	7000	8900	413.28	525.45	0.45	22.50	
2		26.80x6.20	166.16	7000	9100	413.28	537.26	0.50	25.00	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Superintending Engineer-II (Civil)
 GBHP, WAPDA, Barotha-Attock
 (Providing and Fixing Galvanized Crash / Guard Rail Barrier along Power Channel RD-27+886
 to RD-51+420 (Phase-IV) W-295)

Reference # CED/TFL **36633** (Dr. Qasim Khan) Dated: 24-06-2021
 Reference of the request letter # SE-II(C)/GBHP/ATK/W-295/305 Dated: 07-06-2021

Tension Test Report (Page – 1/3)

Date of Test 05-07-2021
 Gauge length 2 inches
 Description W-Section G-1 Strip Tensile Test as per AASHTOO M-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(cm)	(cm ²)	(kg)	(kg)	(kg/cm ²)	(kg/cm ²)	(in)		
1	320x85x3	2.56x0.33	0.84	2300	3900	2723	4616	0.50	25.00	
2		2.56x0.33	0.84	2400	3900	2841	4616	0.50	25.00	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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To,
 Superintending Engineer-II (Civil)
 GBHP, WAPDA, Barotha-Attock
 (Providing and Fixing Galvanized Crash / Guard Rail Barrier along Power Channel RD-27+886
 to RD-51+420 (Phase-IV) W-295)

Reference # CED/TFL **36633** (Dr. Qasim Khan) Dated: 24-06-2021
 Reference of the request letter # SE-II(C)/GBHP/ATK/W-295/305 Dated: 07-06-2021

Tension Test Report (Page – 2/3)

Date of Test 05-07-2021
 Gauge length 2 inches
 Description G-1 Steel Post Strip Tensile Test as per ASTM A36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	120x55x5	25.65x5.10	130.82	4200	6000	314.96	449.95	0.60	30.00	
2		25.40x5.10	129.54	4300	6100	325.64	461.95	0.60	30.00	
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
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Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Superintending Engineer-II (Civil)
GBHP, WAPDA, Barotha-Attock
(Providing and Fixing Galvanized Crash / Guard Rail Barrier along Power Channel RD-27+886
to RD-51+420 (Phase-IV) W-295)

Reference # CED/TFL **36633** (Dr. Qasim Khan)

Dated: 24-06-2021

Reference of the request letter # SE-II(C)/GBHP/ATK/W-295/305

Dated: 07-06-2021

Size Test Report (Page – 3/3)

Date of Test 05-07-2021

Description W-Section G-1 & G-1 Steel Post thickness Test

Sr. No.	Designation		Thickness	Remark
	(mm)		(mm)	
1	W-Section	320x85x3	3.30	
2	Steel Post	120x55x5	5.10	
-	-		-	
-	-		-	
-	-		-	
-	-		-	
-	-		-	
Only Two Samples for Test				

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To,
 Project Engineer
 Bigriver Construction & Installation (Pvt.) Ltd.
 Vivo Project

Reference # CED/TFL **36672** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 01-07-2021
 Dated: 01-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	Nominal	Actual			
1	0.250	8	7.76	-----	0.073	-----	6200	-----	-----	-----	186300	0.20	2.5	
2	0.415	10	10.01	0.12	0.122	3600	5300	66138	65040	97370	95800	1.60	20.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and two samples for bend test

Bend Test

8mm Dia Bar Bend Test Through 180° is Failed

10mm Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
 Project Coordinator
 Banu Mukhtar Contracting (Pvt) Ltd
 8 Godown Naveena Export

Reference # CED/TFL **36675** (Dr. Qasim Khan)
 Reference of the request letter # BML/NaveenaExport/002

Dated: 01-07-2021
 Dated: 29-06-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	Nominal	Actual			
1	0.379	10	9.56	0.12	0.111	3200	5100	58789	63370	93696	101000	1.10	13.8	
2	0.373	10	9.49	0.12	0.110	3000	5000	55115	60260	91858	100500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Pillar & Sons
 Rumanza Golf & Country Club, DHA Multan

Reference # CED/TFL **36677** (Dr. Qasim Khan)
 Reference of the request letter # P&S/OTH/GEN/00030

Dated: 02-07-2021
 Dated: 30-06-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.379	3	0.377	0.11	0.112	3400	5100	68200	67190	102200	100800	1.20	15.0	
2	0.372	3	0.373	0.11	0.109	3000	5000	60200	60440	100200	100800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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To,
 Assistant Resident Engineer
 Engineering Consultancy Services Punjab (Pvt) Ltd
 Supply, Construction, Installation of Water Filtration Plants & Direct Supply in Dera Ghazi
 Khan Division

Reference # CED/TFL **36679** (Dr. Qasim Khan)
 Reference of the request letter # ECSP/PAPA/CZ-DGK-03

Dated: 02-07-2021
 Dated: 10-06-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.411	3	0.392	0.11	0.121	3500	5000	70200	63850	100200	91300	1.40	17.5	
2	0.381	3	0.378	0.11	0.112	3400	4800	68200	66850	96200	94400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Potential Engineers (Pvt.) Limited
Lahore
(PCC Pole Plant Sadiqabad)

Reference # CED/TFL **36681** (Dr. Qasim Khan)
Reference of the request letter # POT/HTLT/SPUN/SDK/148

Dated: 01-07-2021
Dated: 01-07-2021

Tension Test Report (Page – 1/1)

Date of Test 05-07-2021
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	442.0	10100	99.08	11300	110.85	>3.50	xx
2	11.11 (7/16")	582.0	593.0	13600	133.42	15100	148.13	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only two samples for Test

I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager Civil Works
 Nishat Mills Limited
 Construction of Stitching Extension Unit 31, Lahore

Reference # CED/TFL **36682** (Dr. Qasim Khan)
 Reference of the request letter # NDF/ST/003

Dated: 02-07-2021
 Dated: 01-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	Nominal	Actual			
1	0.378	10	9.55	0.12	0.111	3400	4600	62464	67460	84510	91300	0.90	11.3	Afco Steel
2	0.385	10	9.64	0.12	0.113	4000	5200	73487	77890	95533	101300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **36686** (Dr. Qasim Khan)
 Reference of the request letter # ST/UET/20210705

Dated: 05-07-2021
 Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.375	3	0.374	0.11	0.110	3300	4900	66200	66050	98200	98100	1.10	13.8	Batala Premium
2	0.365	3	0.370	0.11	0.107	3000	4700	60200	61580	94200	96500	1.30	16.3	
3	0.394	3	0.384	0.11	0.116	3800	5100	76200	72340	102200	97100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
M/S BPS (Private) Ltd.
Lahore
(Alpha Homes (Apartments) Project)

Reference # CED/TFL **36688** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 05-07-2021
Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.101	10	1.239	1.27	1.205	38200	53400	66300	69850	92700	97700	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Note: only one sample for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S M. Saleem Construction Company
Sheikhupura
(Project: Extension Weaving Unit.)

Reference # CED/TFL **36692** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 05-07-2021
Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 05-07-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	Nominal	Actual			
1	0.365	3/8	0.370	0.11	0.107	3430	4740	68800	70430	95000	97400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples