



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

To,  
Senior Manager Project  
Project Management Unit Chaman CT-1)  
National Logistics Cell Care of Signal Centre Chaman (Balochistan)  
Construction of Border Crossing Facility Chaman  
(SPM)  
Reference # CED/TFL **34747** (Dr. M Rizwan Riaz)  
Reference of the request letter # 607/BCF Chaman/NLC

Dated: 26-02-2020

Dated: 24-02-2020

**Tension Test Report** (Page – 1/2)

Date of Test 02-03-2020  
Gauge length -----  
Description Fence Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.80	520	5.10	
2	3.80	520	5.10	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
<b>Only Two Samples for Test</b>				

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

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Dated: 26-02-2020  
 Dated: 24-02-2020

**Tension Test Report** (Page – 2/2)

Date of Test 02-03-2020  
 Gauge length 2 inches  
 Description G.I Pipe Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	3	28.00x1.90	53.20	1800	2200	331.92	405.68	0.30	15.00	
2		28.00x1.90	53.20	1800	2200	331.92	405.68	0.30	15.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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**UET Lahore, Pakistan.**

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Infra Dev Works Sector-U,W,X & Y, DHA PH-VIII)(M/s DHA-C)

Reference # CED/TFL **34757** (Dr. Qasim Khan)  
Reference of the request letter # 408/241/E/Lab/858/14157

Dated: 28-02-2020  
Dated: 26-02-2020

**Tension Test Report** (Page -1/1)

Date of Test 01-03-2020  
Gauge length -----  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal (in)	Actual (mm)	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.114	5/32	4.31	12.82	14.57	800	1040	612	539	796	700	
2	0.112	5/32	4.27	12.82	14.32	800	1040	612	548	796	712	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two sample for tensile and one sample for bend test</b>												
Bend Test												
5/32" Dia Bar Bend Test Through 180° is Satisfactory												

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S PK Steel  
Lahore

Reference # CED/TFL **34758** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 28-02-2020  
Dated: 28-02-2020

**Tension Test Report** (Page -1/1)

Date of Test 02-03-2020  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in <sup>2</sup> )		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	0.423	3	0.398	0.11	0.124	2900	4700	58200	51430	94200	83400	1.00	12.5	
2	0.405	3	0.390	0.11	0.119	3600	5600	72200	66580	112300	103600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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To,  
M/S Moaz Steel  
Lahore  
(Couplers for CGGC-DESCON Jv Muhammad Dam Hydro Power Project)

Reference # CED/TFL **34759** (Dr. Qasim Khan)  
Reference of the request letter # MZ/CGGC-DES/MD/UET/012

Dated: 28-02-2020  
Dated: 28-02-2020

**Tension Test Report** (Page -1/1)

Date of Test 01-073-2020  
Gauge length 8 inches  
Description Plain Steel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	50	36.10	1023.539	38800	66900	371.87	641.20	1.60	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>										
-	-	-	-	-	-	-	-	-	-	
<b>Bend Test</b>										

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To,  
 Site Engineer  
 Al-Hamd Engineering & Contractors  
 Nankan Sb Service Area km 1109 APL Retailout let North Bound to Lahore

Reference # CED/TFL **34761** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 28-02-2020  
 Dated: 28-02-2020

**Tension Test Report** (Page -1/1)

Date of Test 02-03-2020  
 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 <sup>2</sup> )		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	0.363	3	0.369	0.11	0.107	3700	4900	74200	76450	98200	101300	1.20	15.0	
2	0.359	3	0.367	0.11	0.106	3700	4950	74200	77280	99200	103400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Site Engineer  
 Al-Hamd Engineering & Contractors  
 Nankan Sb Service Area km 1109 APL Retailout let South Bound to Abdul Hakeem

Reference # CED/TFL **34762** (Dr. Qasim Khan) Dated: 28-02-2020  
 Reference of the request letter # Nil Dated: 28-02-2020

**Tension Test Report** (Page -1/1)

Date of Test 02-03-2020  
 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 <sup>2</sup> )		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	0.346	3	0.360	0.11	0.102	3700	4900	74200	80300	98200	106400	1.10	13.8	
2	0.357	3	0.366	0.11	0.105	3300	4400	66200	69310	88200	92500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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