



**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  
 CSC  
 CAREC – RIBS Chaman BCP Project  
 FBR - NLC  
 (Prime)  
 Reference # CED/TFL **34684** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 14-02-2020  
 Dated: 14-02-2020

**Tension Test Report** (Page – 1/2)

Date of Test 26-02-2020  
 Gauge length 2 inches  
 Description Aluminum Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Aluminum	26.30x1.40	36.82	8.17	9.05	221.89	245.79	0.20	10.00	
2		26.30x1.40	36.82	8.17	9.15	221.89	248.51	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

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CAREC – RIBS Chaman BCP Project  
FBR - NLC  
(Prime)  
Reference # CED/TFL **34684** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 14-02-2020

Dated: 14-02-2020

**Size Test Report** (Page – 2/2)  
Date of Test 26-02-2020  
Gauge length -----  
Description Aluminum Size Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	Aluminum	1.40	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only One Sample for Test</b>			

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

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To,  
Deputy CRE  
Zeeruk International (Pvt) Ltd  
Lahore Sialkot Motorway Project

Reference # CED/TFL **34708** (Dr. M Rizwan Riaz)  
Reference of the request letter # LSMP/DCRE/2020/1502

Dated: 19-02-2020  
Dated: 19-02-2020

**Tension Test Report** (Page – 1/1)

Date of Test 26-02-2020  
Gauge length -----  
Description Galvanized Mesh Wire & Tension Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.10	5.00	Mesh Wire
2	3.10	5.20	
3	3.15	7.57	Tension Wire
4	3.15	7.30	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Only Four Samples for Test</b>			

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

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

To,  
 Deputy CRE  
 Zeeruk International (Pvt) Ltd  
 Lahore Sialkot Motorway Project  
 (M/s Munir Industries Lahore)(M/s Pak Italia Dilligence (Pvt) Ltd)

Reference # CED/TFL **34709** (Dr. Ali Ahmed)  
 Reference of the request letter # LSM/DCRE/2020/1501

Dated: 19-02-2020  
 Dated: 19-02-2020

**Tension Test Report** (Page – 1/1)

Date of Test 26-02-2020  
 Gauge length 2 inches  
 Description Steel W- Beam & Steel Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Steel W- Beam	1.97x0.275	0.54	2200	2700	4061	4984	0.70	35.00	S # 1
2		1.97x0.275	0.54	2200	2800	4061	5168	0.70	35.00	
3	Steel W- Beam	1.97x0.275	0.54	2200	2800	4061	5168	0.70	35.00	S # 2
4		1.97x0.275	0.54	2100	2700	3876	4984	0.70	35.00	
5	Steel Post	2.41x0.71	1.71	6300	9000	3682	5260	0.70	35.00	S # 1
6		2.41x0.71	1.71	6100	9000	3565	5260	0.70	35.00	
7	Steel Post	2.41x0.71	1.71	6600	9000	3857	5260	0.70	35.00	S # 2
8		2.41x0.71	1.71	6300	9000	3682	5260	0.70	35.00	

**Only Eight Samples for Tensile Test**

Bend Test										

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

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To,  
Deputy CRE  
Zeeruk International (Pvt) Ltd  
Lahore Sialkot Motorway Project

Reference # CED/TFL **34729** (Dr. M Rizwan Riaz)  
Reference of the request letter # LSMP/DCRE/2020/1512

Dated: 21-02-2020  
Dated: 21-02-2020

**Tension Test Report** (Page – 1/1)

Date of Test 26-02-2020

Gauge length -----

Description Galvanized Mesh Wire & Tension Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.20	3.67	Mesh Wire
2	3.20	4.12	
3	3.20	3.75	
4	3.20	7.07	Tension Wire
5	3.20	7.15	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Only Five Samples for Test</b>			

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**UET Lahore, Pakistan.**

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To,  
 Resident Engineer  
 CSC  
 CARREC- RIBS Chaman BCP Project  
 FBR - NLC

Reference # CED/TFL **34684** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 14-02-2020  
 Dated: 14-02-2020

**Tension Test Report** (Page – 1/1)

Date of Test 26-02-2020  
 Gauge length 2 inches  
 Description Aluminum Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Aluminum	26.30x1.40	36.82	8.17	9.05	221.89	245.79	0.20	10.00	
2		26.30x1.40	36.82	8.17	9.15	221.89	248.51	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

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To,  
 Resident Engineer  
 Rizwan Nazir Consulting Engineers (Pvt) Limited  
 House # 233, Sector-Z, DHA Phase-3, Lahore

Reference # CED/TFL **34742** (Dr. Ali Ahmed)  
 Reference of the request letter # RNEC/H-233/DHA/20/01

Dated: 25-02-2020  
 Dated: 25-02-2020

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

Date of Test 26-02-2020  
 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	0.378	3	0.376	0.11	0.111	3500	4500	70200	69420	90200	89300	1.00	12.5	
2	0.376	3	0.375	0.11	0.111	3400	4300	68200	67770	86200	85700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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