



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

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

Reference # CED/TFL **34335** (Dr. Qasim Khan)  
Reference of the request letter # LSMP/DCRE/2019/1292

Dated: 17-12-2019  
Dated: 17-12-2019

**Tension Test Report** (Page – 1/1)

Date of Test 30-12-2019  
Gauge length -----  
Description Mesh Wire & Tension Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.10	4.05	Mesh Wire
2	3.10	3.85	
3	3.20	8.05	Tension Wire
4	3.20	7.70	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only Four Samples for Test</b>			

**I/C Testing Laboratories**  
**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,  
M/S SA-RA Group  
Lahore  
(Procurement of Plant, Design, Supply, Installatio, Testing and Commission of 220 kV Double  
Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)

Reference # CED/TFL **34346, 379** (Dr. Qasim Khan)  
Reference of the request letter # MIG/2019/1095

Dated: 19-12-2019  
Dated: 13-12-2019

**Tension Test Report** (Page – 1/3)

Date of Test 30-12-2019  
Gauge length 2 inches  
Description Stubs Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	EA Type Stubs	150x150x12H	31.80x12.00	381.60	15000	21600	385.61	555.28	0.70	35.00	
2			31.80x12.00	381.60	15100	21400	388.18	550.14	0.90	45.00	
3	EA Type Stubs	150x150x12H	31.60x12.00	379.20	16600	22300	429.45	576.91	0.80	40.00	
4			31.60x12.00	379.20	15700	21500	406.16	556.21	0.80	40.00	
5	EG Type Stubs	150x150x16H	31.80x16.10	511.98	21600	29100	413.88	557.58	0.90	45.00	
6			31.80x16.10	511.98	20700	28500	396.63	546.09	1.00	50.00	
<b>Only Six Samples for Tensile and Six Sample for Bend Test</b>											
<b>Bend Test</b>											
Strip Taken from EA Type Stubs (150x150x12H) Test Through 180° is Satisfactory											
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Strip Taken from EA Type Stubs (150x150x12H) Test Through 180° is Satisfactory											
Strip Taken from EG Type Stubs (150x150x16H) Test Through 180° is Satisfactory											
Strip Taken from EG Type Stubs (150x150x16H) Test Through 180° is Satisfactory											

Witness by Ahsan Mubashir (Asst. Manager (T/L Design) NTDC)

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

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(Procurement of Plant, Design, Supply, Installatio, Testing and Commission of 220 kV Double  
Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)

Reference # CED/TFL **34346, 379** (Dr. Qasim Khan)  
Reference of the request letter # MIG/2019/1095

Dated: 19-12-2019  
Dated: 13-12-2019

**Tension Test Report** (Page – 2/3)

Date of Test 30-12-2019  
Gauge length 2 inches  
Description Stubs Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	EG Type Stubs	150x150x16H	31.60x16.10	508.76	21500	28800	414.57	555.33	0.90	45.00	
2			31.70x16.10	510.37	21000	29300	403.65	563.19	0.90	45.00	
3	JKD/TJK Stubs	200x200x16H	31.80x16.10	511.98	21900	29300	419.62	561.41	0.90	45.00	
4			31.80x16.10	511.98	22000	29300	421.54	561.41	0.90	45.00	
5	JKD/TJK Stubs	200x200x16H	31.80x16.10	511.98	21600	28700	413.88	549.92	0.80	40.00	
6			31.80x16.10	511.98	22000	29600	421.54	567.16	0.90	45.00	
<b>Only Six Samples for Tensile and Six Samples for Bend Test</b>											
<b>Bend Test</b>											
Strip Taken from EG Type Stubs (150x150x16H) Test Through 180° is Satisfactory											
Strip Taken from EG Type Stubs (150x150x16H) Test Through 180° is Satisfactory											
Strip Taken from JKD/TJK Type Stubs (200x200x16H) Test Through 180° is Satisfactory											
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Witness by Ahsan Mubashir (Asst. Manager (T/L Design) NTDC)

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

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(Procurement of Plant, Design, Supply, Installatio, Testing and Commission of 220 kV Double  
Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)

Reference # CED/TFL **34346, 379** (Dr. Qasim Khan)  
Reference of the request letter # MIG/2019/1095

Dated: 19-12-2019  
Dated: 13-12-2019

**Weight & Size Test Report** (Page – 3/3)

Date of Test 30-12-2019  
Gauge length -----  
Description Stubs Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
1	EA Type Stubs	150x150x12H	16600	61.10	27.17	150.00	150.20	12.10	
2	EG Type Stubs	150x150x16H	21500	61.00	35.25	150.00	150.20	16.20	
3	JKD/TJK Stubs	200x200x16H	29000	61.00	47.54	200.00	200.20	16.20	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>									

Witness by Ahsan Mubashir (Asst. Manager (T/L Design) NTDC)

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

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To,  
M/S Model Steel Pvt Ltd  
Lahore

Reference # CED/TFL **34351** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 20-12-2019

Dated: 20-12-2019

**Tension Test Report** (Page – 1/2)

Date of Test 30-12-2019

Gauge length 2 inches

Description Angle Iron Steel Strip Tensile and Bend 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
1	Angle Iron	23.40x4.10	95.94	3400	6600	347.65	674.86	0.60	30.00	
2		23.40x4.10	95.94	4000	6600	409.01	674.86	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Angle Iron Bend Test Through 180° is Satisfactory										

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
M/S Model Steel Pvt Ltd  
Lahore

Reference # CED/TFL **34351** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 20-12-2019

Dated: 20-12-2019

**Weight & Size Test Report** (Page – 2/2)

Date of Test 30-12-2019  
Gauge length -----  
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
1	Angle Iron	2000	64.60	3.10	48.80	48.60	4.10	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two 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 **34355** (Dr. Safer Abbas)  
 Reference of the request letter # LSM/RE-II/St/19/808

Dated: 23-12-2019  
 Dated: 23-12-2019

**Tension Test Report** (Page – 1/1)

Date of Test 30-12-2019  
 Gauge length 2 inches  
 Description Galvanized Steel W-Beam & Galvanized 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	2.58x0.275	0.71	2600	3500	3665	4933	0.65	32.50	
2		2.58x0.275	0.71	2700	3600	3805	5074	0.55	27.50	
3	Steel W-Beam	2.58x0.275	0.71	2500	3500	3524	4933	0.60	30.00	
4		2.58x0.275	0.71	2700	3600	3805	5074	0.60	30.00	
5	Steel Post	2.58x0.715	1.84	6900	9400	3740	5096	0.65	32.50	
6		2.58x0.715	1.84	6900	9500	3740	5150	0.65	32.50	
7	Steel Post	2.58x0.715	1.84	6800	9400	3686	5096	0.70	35.00	
8		2.58x0.715	1.84	6800	9300	3686	5041	0.60	30.00	
<b>Only Eight Samples for Tensile Test</b>										
<b>Bend Test</b>										

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**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
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Ref: CED/TFL/12/34370

Dated: 24-12-19

Dated of Test: 30-12-2019

To  
**M/S Baba Mughal Hussain Drilling Co**  
**Lahore**

**Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/12/34370)**

Reference to your Letter No. 100, dated: 24/12/2019 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

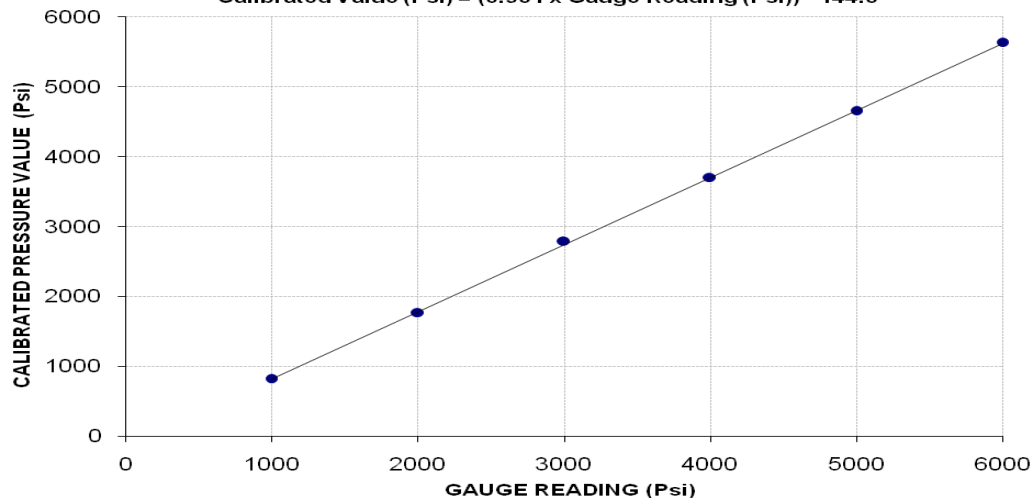
**Total Range : Zero - 8600 (Psi)**  
**Calibrated Range : Zero - 6000 (Psi)**

Pressure Gauge Reading (Psi)	1000	2000	3000	4000	5000	6000
Calibrated Load (kg)	11300	24500	38700	51400	64700	78300
Calibrated Pressure (Psi)	811.72	1759.92	2779.95	3692.23	4647.62	5624.55

The Ram Area of Calibration = 198 cm<sup>2</sup>

**Calibration Curve for Pressure Gauge**

**Calibrated Value (Psi) = (0.961 × Gauge Reading (Psi)) - 144.6**



**I/C Testing Laboratories**  
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To,  
Senior Manager Project  
Project Management Unit Chaman (CT-1)  
National Logistics Cell  
Care Signal Centre Chaman (Balochistan)  
Construction of Border Crossing Facility Chaman Project  
(Ibrahim Nizami )

Reference # CED/TFL **34372** (Dr. Qasim Khan)  
Reference of the request letter # 607/BCF Chaman/NLC

Dated: 24-12-2019

Dated: 23-12-2019

**Tension Test Report** (Page – 1/1)

Date of Test 30-12-2019  
Gauge length -----  
Description G.I Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	4.00	5.15	
2	4.00	5.27	
3	4.00	5.47	
4	4.00	5.45	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only Four Samples for Test</b>			

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

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To,  
M/S SA-RA Group  
Lahore

(Procurement of Plant, Design, Supply, Installatio, Testing and Commission of 220 kV Double  
Circuit Transmission Line on Rail Conductor from D.I Khan to Zhob)(Approx. 220km)

Reference # CED/TFL **34380** (Dr. Qasim Khan)  
Reference of the request letter # MIG/2019/1095

Dated: 26-12-2019  
Dated: 13-12-2019

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

Date of Test 30-12-2019

Gauge length 25 cm

Description Copper Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (kg/mm <sup>2</sup> )	Ultimate Stress (kg/mm <sup>2</sup> )	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(cm)		
1	0.264	6.50	6.54	-----	33.6	-----	840	-----	25	1.20	4.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>												
Bend Test												

Witness by Ahsan Mubashir (Asst. Manager (T/L Design) NTDC)

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

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Ref: CED/TFL/12/34382

Dated: 26-12-18

Dated of Test: 30-12-18

To  
M/S YASCON  
GE (Svcs) Sialkot  
Mumtaz Ahmed  
(Sites: CA no. CEA/CZ- 114/2019  
CEA/CZ- 107/2019 (AD Lines))

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76]** (Page -1/3)

Reference to your letter No. YAS/UET/05/11, dated 26.12.2019 on the subject cited above. Three R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.378	2.210	285.00	231.90	26.55	4000	5000	76.57	95.71
2	304.8 (12")	2.362	2.210	400.00	296.80	51.60	11000	13500	164.52	201.90
3	381 (15")	2.369	2.225	490.00	362.64	63.68	13700	20200	166.57	245.59

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To,  
M/S YASCON  
GE (Svcs) Sialkot  
Mumtaz Ahmed  
(Sites: CA no. CEA/CZ- 114/2019  
CEA/CZ- 107/2019 (AD Lines))

Reference # CED/TFL **34382** (Dr. Waseem Abbass)  
Reference of the request letter # YAS/UET/05/11

Dated: 26-12-2019  
Dated: 26-12-2019

**Tension Test Report** (Page -2/3)

Date of Test 30-12-2019  
Gauge length 8 inches  
Description Steel Bar (From RCC Pipe) Tensile Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Pipe Diameter
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.159	-----	0.244	-----	0.047	1000	1280	-----	47070	-----	60300	1.50	18.8	12"
2	0.187	-----	0.265	-----	0.055	1080	1560	-----	43300	-----	62600	1.30	16.3	15"
3	0.113	-----	0.205	-----	0.033	880	1160	-----	58630	-----	77300	1.20	15.0	9"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Note: only three samples for tensile test</b>														
Bend Test														

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

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To  
M/S YASCON  
GE (Svcs) Sialkot  
Mumtaz Ahmed  
(Sites: CA no. CEA/CZ- 114/2019  
CEA/CZ- 107/2019 (AD Lines))

Reference # CED/TFL **34382** (Dr. Waseem Abbass)  
Reference of the request letter # YAS/UET/05/11

Dated: 26-12-2019  
Dated: 26-12-2019

**Test Report**(Page -3/3)

Date of Test           30-12-2019  
Description            RCC Pipe

Sr. No.	Nominal Size	No. Steel Bar in Length	No. Steel Ring	Remark
	(mm)			
1	228.6 (9")	6	10	
2	304.8 (12")	6	24	
3	381 (15")	6	24	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
<b>Note: only three Pipe test</b>				

**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](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