



**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 **32973** (Dr. Qasim Khan)  
 Reference of the request letter # LSMP/DCRE/2020/1692

Dated: 11-06-2020  
 Dated: 11-06-2020

**Tension Test Report** (Page – 1/1)

Date of Test 17-06-2020  
 Gauge length 2 inches  
 Description Steel Structure Steel 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
1	Steel Pole	32.50x4.40	143.00	4700	6900	322.43	473.35	0.75	37.50	
2		32.50x4.40	143.00	4600	6900	315.57	473.35	0.85	42.50	
3	Base Plate	24.00x25.00	600.00	17400	29500	284.49	482.33	1.00	50.00	
4		24.00x25.00	600.00	17200	29100	281.22	475.79	0.95	47.50	
5	Stiffeners	24.00x25.10	602.40	16800	28800	273.59	469.00	0.95	47.50	
6		24.00x25.10	602.40	16300	29000	265.44	472.26	1.10	55.00	
<b>Only Six Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

- 1- You can See your reports On Internet in the following web site  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
 Business Manager  
 China Energy Engineering Group Hunan Electric Power Design Institute Co., Ltd  
 FW(I)-002 Construction of 500 kV Double Circuit Transmission Line and 220 kV Double  
 Circuit Transmission Line with NTDC

Reference # CED/TFL **34963** (Dr. Qasim Khan)  
 Reference of the request letter # FW-002/TL-M-001

Dated: 09-06-2020  
 Dated: 07-03-2020

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

Date of Test 17-06-2020  
 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 <sup>2</sup> )		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	0.368	10	9.42	0.12	0.108	2800	4600	51441	57100	84510	93900	1.40	17.5	Fazal Steel
2	0.369	10	9.44	0.12	0.108	2900	4600	53278	58930	84510	93500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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  
 Orbit Developers Private Limited  
 The Spring, Gulberg Lahore

Reference # CED/TFL **34992** (Dr. Qasim Khan)  
 Reference of the request letter # Nil

Dated: 16-06-2020  
 Dated: 16-06-2020

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

Date of Test 17-06-2020  
 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	0.367	3	0.371	0.11	0.108	3000	4600	60200	61290	92200	94000	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	2900	4300	58200	58650	86200	87000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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,  
 Project Manager  
 MEK Multistory Offices,  
 P-156 Gulberg II, Lahore

Reference # CED/TFL **34993** (Dr. Qasim Khan)  
 Reference of the request letter # P-156-109

Dated: 16-06-2020  
 Dated: 16-06-2020

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

Date of Test 17-06-2020  
 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	0.371	3	0.372	0.11	0.109	4200	5100	84200	84950	102200	103200	0.80	10.0	Mughal Steel
2	0.365	3	0.370	0.11	0.107	4000	4900	80200	82160	98200	100700	0.40	5.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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