



**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 Al Fazal Engineering  
Lahore  
((General Electric) Grid Station Faisalabad)

Reference # CED/TFL **36177** (Dr. Qasim Khan)  
Reference of the request letter # ALF-21-03-00476

Dated: 08-03-2021  
Dated: 08-03-2021

**Tension Test Report** (Page – 1/1)

Date of Test 08-03-2021  
Gauge length 2 inches  
Description 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> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Strip	23.80x2.50	59.50	1800	2040	296.77	336.34	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

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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,  
M/S Tameer Construction (Pvt) Ltd  
Lahore  
(Construction of Grey Structure at 63-D, Dream Garden Lahore)

Reference # CED/TFL **36168** (Dr. Usman Akmal)

Dated: 04-03-2021

Reference of the request letter # TCPL/CONST-63D/1079/1785

Dated: 01-03-2021

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

Date of Test 05-03-2021

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 <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	0.381	3/8	0.378	0.11	0.112	3200	4800	64200	62900	96200	94400	1.40	17.5	
2	0.362	3/8	0.368	0.11	0.107	3300	4800	66200	68280	96200	99400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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To,  
 M/S Defence Housing Authority.  
 Lahore Cantt  
 (Const of 1-Kanal NGV at DRGCC Ph-III Club House DHA Ph-6) – (M/s Linker Developers  
 (Pvt) Ltd)  
 Reference # CED/TFL **36170** (Dr. Qasim Khan) Dated: 05-03-2021  
 Reference of the request letter # 408/241/E/Lab/44/274 Dated: 04-03-2021

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

Date of Test 05-03-2021  
 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 <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	0.380	3	0.377	0.11	0.112	3200	5100	64200	63190	102200	100800	1.50	18.8	Afco Steel
2	0.373	3	0.374	0.11	0.110	3200	5100	64200	64280	102200	102500	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														

**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 **36171** (Dr. Waseem Abbass)  
 Reference of the request letter # ST/UET/20210305-A

Dated: 05-03-2021  
 Dated: 05-03-2021

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

Date of Test 05-03-2021  
 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 <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	0.375	3	0.375	0.11	0.110	3300	4800	66200	65990	96200	96000	1.10	13.8	Batalka Premium
2	0.380	3	0.377	0.11	0.112	3200	4800	64200	63180	96200	94800	1.30	16.3	
3	0.376	3	0.375	0.11	0.111	3400	4900	68200	67770	98200	97700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
 Project Director  
 New Metro City Housing Scheme,  
 Sara-I-Alamgir

Reference # CED/TFL **36175** (Dr. Waseem Abbass)  
 Reference of the request letter # PD/NMC/20/240

Dated: 05-03-2021  
 Dated: 05-03-2021

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

Date of Test 05-03-2021  
 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 <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	0.364	3/8	0.369	0.11	0.107	3100	4800	62200	63860	96200	98900	1.20	15.0	Nonee Steel
2	0.361	3/8	0.367	0.11	0.106	3000	4700	60200	62340	94200	97700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
Project Engineer  
NETRACON Technologies (Pvt) Ltd  
Design, Manufacture, Supply, Installation, Testing and Commission of Plant for 500 / 220 / 132  
kV Faisalabad West Substation  
Reference # CED/TFL 36176(Dr. Waseem Abbass) Dated: 05-03-2021  
Reference of the request letter # NTT-HO/FSDW-GS/049 Dated: 04-03-2021

**Tension Test Report** (Page – 1/1)

Date of Test 05-03-2021  
Gauge length 2 inches  
Description 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	Steel Strip	23.20x2.65	61.48	1680	2080	268.07	331.89	0.40	20.00	
2		23.90x2.65	63.34	-----	2420	-----	374.84	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

Witness by Wasif Ali (Sr. Engineer – NESPAK)

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