



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

To,
Director (Operations)
Alamdar Engineering (Pvt) Limited
Supply of 16 Nos 08 Meter Single Leg Extension for 220 kV EG Type Tower

Reference # CED/TFL **937** (Dr. Ali Ahmed)

Dated: 23-02-2022

Reference of the request letter # AEL/EHV-II/22/2/3561

Dated: 22-02-2022

Tension Test Report (Page – 1/1)

Date of Test 04-03-2022

Gauge length 2 inches

Description Angle Steel 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
	(inch)	(mm)									
1	EG- 260	3/16	24.05x4.85	116.64	5700	6600	479	555	0.50	25.00	
2	EG-257	1/4	24.10x5.80	139.78	7100	8400	498	590	0.20	10.00	
3	EG-246	5/8	24.25x16.80	407.40	19900	24900	479	600	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Tensile and Three Samples for Bend Test											
Bend Test											
Strip Taken from Angle EG-260 (3/16") Bend Test Through 180° is Satisfactory											
Strip Taken from Angle EG-257 (1/4") Bend Test Through 180° is Satisfactory											
Strip Taken from Angle EG-246 (5/8") Bend Test Through 180° is Satisfactory											

To,
Sub Divisional Officer

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
- 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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Public Health Engineering Sub Division
 Khushab

(Construction of PCC Slab, Surface Drain, Sullage Carrier, Culverts & Other Allied Works in UC Kund District Khushab)

Reference # CED/TFL **996** (Dr. Asad Ali)
 Reference of the request letter # 67/KHB

Dated: 03-03-2022
 Dated: 19-01-2022

Tension Test Report (Page -1/1)

Date of Test 04-03-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		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	0.411	3/8	0.392	0.11	0.121	2700	3330	54100	49320	66800	60900	2.00	25.0	
2	0.405	3/8	0.390	0.11	0.119	2520	3180	50500	46610	63800	58900	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Engineer
 Defence Housing Authority,
 Gujranwala

Reference # CED/TFL **1007** (Dr. Asif Hameed)
 Reference of the request letter # 111/15/PE/Pkg-2B/140

Dated: 04-03-2022
 Dated: 03-03-2022

Tension Test Report (Page -1/1)

Date of Test 04-03-2022
 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 ²)		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	3.870	10	1.203	1.27	1.138	40400	54900	70200	78280	95300	106400	1.60	20.0	Union Steel
2	3.839	10	1.199	1.27	1.129	39400	52700	68400	76950	91500	103000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Abdul Rahman (Lab. Tech. DHA Gujranwala)

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