



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

To,

Project Manager  
 Liberty Builders  
 Construction of Zee Avenue Ramada Hotel & Suites 17-Avenue Ramada Hotel & Suites  
 17-A Cooper Road, Lahore

Reference # CED/TFL **2610** (Dr. Irfan ul Hassan)  
 Reference of the request letter # ST/UET/20230113

Dated: 13-01-2023  
 Dated: 13-01-2023

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

Date of Test 13-01-2023  
 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	0.377	3	0.376	0.11	0.111	4150	5580	83200	82460	111900	110900	1.00	12.5	Batala Premium
2	0.377	3	0.376	0.11	0.111	3870	5100	77600	77020	102200	101500	1.20	15.0	
3	0.381	3	0.378	0.11	0.112	3870	4960	77600	76160	99400	97700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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**  
**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



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To,  
Material Engineer  
Defence Housing Authority Multan  
(M/s Sheikho Steel)

Reference # CED/TFL **2611** (Dr. Irfan ul Hassan)  
Reference of the request letter # 701/92/Planning/DHA

Dated: 13-01-2023  
Dated: 11-01-2023

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

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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	Heat No.
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.361	3	0.368	0.11	0.106	3570	4940	71600	74110	99000	102600	1.40	17.5	803
2	0.362	3	0.368	0.11	0.106	3470	4860	69600	71900	97400	100700	1.40	17.5	
3	0.373	3	0.373	0.11	0.110	3470	4940	69600	69840	99000	99500	1.40	17.5	819
4	0.372	3	0.373	0.11	0.109	3520	4940	70600	70940	99000	99600	1.30	16.3	
5	0.374	3	0.374	0.11	0.110	3540	4940	71000	71010	99000	99100	1.30	16.3	825
6	0.377	3	0.376	0.11	0.111	3540	4990	71000	70390	100000	99300	1.30	16.3	
<b>Note: only six samples for tensile and three samples for bend test</b>														
Bend Test														
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Witness by Kamran Tahir (Material Engineer DHA Multan)

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