



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

To,

Resident Engineer  
G3 Engineering Consultants (Pvt) Ltd.  
The Women University Multan.

Reference # CED/TFL **6010** (Dr. M Rizwan Riaz)  
Reference of the request letter # RE/G3/WUM/184

Dated: 18-11-2024  
Dated: 13-11-2024

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

Date of Test 20-11-2023  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.110	3500	5100	70200	69890	102200	101900	1.10	13.8	Aziz Steel
2	0.376	3	0.375	0.11	0.111	3600	5200	72200	71790	104200	103700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

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- The above results pertain to sample /samples supplied to this laboratory.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,

M/S Ittefaq Building Solutions (Pvt) Ltd.  
Lahore  
(Diamond Denim by Sapphire, Ferozewattwan.)

Reference # CED/TFL **6019** (Dr. M Rizwan Riaz)  
Reference of the request letter # IBS/SD/ST

Dated: 19-11-2024  
Dated: 30-09-2024

**Tension Test Report** (Page -1/2)

Date of Test 20-11-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.389	3	0.382	0.11	0.114	4200	5100	84200	80950	102200	98300	0.90	11.3	Afco Steel
2	0.382	3	0.378	0.11	0.112	4000	4900	80200	78520	98200	96200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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To,

M/S Ittefaq Building Solutions (Pvt) Ltd.  
Lahore  
(Sazgar 05 Car Plant)(Sazgar Engineering Works Car Plant.)

Reference # CED/TFL **6019** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 19-11-2024  
Dated: 18-11-2024

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

Date of Test 20-11-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3500	4900	70200	70510	98200	98800	1.10	13.8	Kamran Steel
2	0.365	3	0.370	0.11	0.107	3600	4800	72200	73880	96200	98500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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To,

Ass. Resident Engineer  
 Rehman Habib Consultants  
 Construction / Renovation of 17 Centers of Excellence (COEs) in Existing TEVTA &  
 PVTC Institutes in Punjab Province Under Improving Workforce Readiness in Punjab  
 Project (IWRPP). Government College of Technology (GCT), Bahawalpur.  
 Govt. Technical Training Institute (GTTI), Bahawalpur.

Reference # CED/TFL **6026** (Dr. Asad Ali)

Dated: 20-11-2024

Reference of the request letter # COE/RHC/MLT/24/003

Dated: 18-11-2024

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

Date of Test 20-11-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3940	5170	79000	79440	103600	104300	1.40	17.5	Hunza Steel
2	0.370	3	0.372	0.11	0.109	3920	5170	78600	79370	103600	104700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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