



**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 Lahore Hills Private Limited  
Karachi

Reference # CED/TFL **5925** (Dr. M Rizwam Riaz )  
Reference of the request letter # DH/MT/0147

Dated: 30-10-2024  
Dated: 29-10-2024

**Tension Test Report** (Page – 1/1)  
Date of Test 04-11-2024  
Gauge length 2 inches  
Description Stainless Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Swg)	(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	18	12.20x1.20	14.64	800	1000	536	670	1.00	50.00	
2	22	12.40x0.60	7.44	520	780	686	1028	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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To,  
Assistant Director-II (Q.C.D)  
WASA, LDA, Lahore.  
(M/s Mian Ahtesham Pipe Factory).

Reference # CED/TFL **5943** (Dr. M Rizwan Riaz)  
Reference of the request letter # QCD/3132

Dated: 01-11-2024  
Dated: 22-10-2024

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

Date of Test 04-10-2024  
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	0.376	3/8	0.375	0.11	0.111	3600	4800	72200	71730	96200	95700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample 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,  
Deputy General Manager Works  
Habib Rafiq Engineering (Pvt.) Limited  
101 Tower, Lahore

Reference # CED/TFL **5946** (Dr. M Rizwan Riaz)  
Reference of the request letter # HRLE/SKG/2024/Kamran/171

Dated: 01-11-2024  
Dated: 01-11-2024

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

Date of Test 04-11-2024  
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	4.080	32	31.39	1.25	1.199	36800	53800	64903	67640	94886	98900	1.30	16.3	Kamran Steel	
2	4.169	32	31.73	1.25	1.225	36800	53000	64903	66190	93475	95400	1.50	18.8		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Note: only two samples for tensile and one sample for bend test</b>															
Bend Test															
32mm Dia Bar Bend Test Through 180° is Satisfactory															

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To,  
M/S Civooool Steel (Private) Limited.  
Manga Road Link Distt. Lahore.

Reference # CED/TFL **5947** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 01-11-2024  
Dated: 31-10-2024

**Tension Test Report** (Page -1/1)  
Date of Test 04-11-2024  
Gauge length 8 inches  
Description Anchor Bolt Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	5.714	30	30.44	-----	727.9	25700	39200	346	528	2.00	25.0	
2	7.492	36	34.86	-----	954.4	35600	54000	366	555	2.30	28.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>												
Bend Test												

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To,  
Project Manager  
DSG Energy  
Construction of Office Building at 29-M QIE, Lahore.

Reference # CED/TFL **5948** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 04-11-2024  
Dated: 04-11-2024

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

Date of Test 04-11-2024  
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	0.369	3	0.372	0.11	0.108	3600	5000	72200	73180	100200	101700	1.10	13.8	Hunza Steel
2	0.369	3	0.372	0.11	0.108	3600	5000	72200	73150	100200	101600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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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