



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

To,  
 Deputy Director (Engg)  
 LDA, Lahore  
 (Construction of 200 Bus Stop Shelters Including Bus Information and Scheduling System in Lahore)

Reference # CED/TFL **1341** (Dr. M Rizwan Riaz)  
 Reference of the request letter # DD(Engg.)/LDA/23

Dated: 26-04-2022  
 Dated: 25-04-2022

**Tension Test Report** (Page – 1/2)

Date of Test 10-05-2022  
 Gauge length 2 inches  
 Description Structure Steel / MS Pipe Square Type Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)										
1	MS Pipe Square	1.5	19.70x1.30	25.61	1000	1350	383	517	0.20	10.00	
2	MS Pipe Square	2	19.80x1.10	21.78	1200	1550	540	698	0.20	10.00	
3	MS Pipe Square	3	19.90x1.40	27.86	1100	1400	387	493	0.20	10.00	
4	MS Pipe Square	4	19.90x2.40	47.76	2000	2600	411	534	0.60	30.00	
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-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Four Samples 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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Reference # CED/TFL **1341** (Dr. M Rizwan Riaz)  
Reference of the request letter # DD(Engg.)/LDA/23

Dated: 26-04-2022  
Dated: 25-04-2022

**Weight & Size Test Report** (Page – 2/2)

Date of Test 10-05-2022  
Description Structure Steel / MS Pipe Square Type Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Outer Dimension		Thickness	Remark
						X	Y		
	(mm)		(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	MS Pipe Square Type	1.5	135	101.30	1.33	37.90	37.50	1.20	
2	MS Pipe Square Type	2	163	103.00	1.58	45.50	46.20	1.10	
3	MS Pipe Square Type	3	245	105.90	2.31	75.10	75.30	1.40	
4	MS Pipe Square Type	4	740	101.00	7.33	101.90	100.90	2.40	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
<b>Only Four Samples for Test</b>									

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To,  
M/S M. Siddique Sons Engineering Concern (Pvt) Ltd  
Lahore  
(Engor Enfrashare)

Reference # CED/TFL **1342** (Dr. M Rizwan Riaz)  
Reference of the request letter # SS/Letter # 1011

Dated: 26-04-2022  
Dated: 25-04-2022

**Tension Test Report** (Page – 1/1)

Date of Test 10-05-2022  
Gauge length 2 inches  
Description Angle Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)									
1	Angle	5 x 3/8	19.80x9.20	182.16	8000	11800	431	635	0.60	30.00	SS02B
2	Angle	5 x 1/2	20.00x13.90	278.00	12000	17400	423	614	0.70	35.00	SS02A
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-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile Test</b>											
<b>Bend Test</b>											

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To,  
 Deputy Director (Engineering)  
 Parks & Horticulture Authority  
 Gujranwala  
 (Renovation of Gulshan-e-Iqbal Park including Track, Lighting System and Functioning of Lake)  
 Reference # CED/TFL **1358** (Dr. M Rizwan Riaz) Dated: 09-05-2022  
 Reference of the request letter # DDE/PHA/GRW-22 Dated: 09-05-2022

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

Date of Test 10-05-2022  
 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	0.374	3/8	0.374	0.11	0.110	3300	5000	66200	66180	100200	100300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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To,  
 Resident Engineer  
 Sitara Heights Private Limited, Lahore  
 "Sitara Serene Tower" Liberty Market Gulberg, Lahore

Reference # CED/TFL 1364 (Dr. Qasim Khan)  
 Reference of the request letter # SHP/SERENE/LHR

Dated: 10-05-2022  
 Dated: 10-05-2022

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

Date of Test 10-05-2022  
 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 <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	0.371	3	0.373	0.11	0.109	3100	4900	62200	62640	98200	99100	1.30	16.3	
2	0.379	3	0.377	0.11	0.111	3100	4900	62200	61290	98200	96900	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														

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