



**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  
NESPAK

Pakistan Kidney & Liver Institute and Research Center Package C-I, Phase – I, Lahore

Reference # CED/TFL **2412** (Dr. M Rizwan Riaz)

Dated: 06-12-2022

Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-76 Dated: 05-12-2022

**Tension Test Report** (Page – 1/2)

Date of Test 13-12-2022

Gauge length 2 inches

Description MS Seamless Pipe 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)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	8	25.90x7.70	199.43	6500	10000	320	492	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only One Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

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Dated: 06-12-2022

Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-76 Dated: 05-12-2022

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

Date of Test 13-12-2022

Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	3/4	505	31.40	1.61	26.40	20.60	2.90	
2	1	825	31.40	2.63	32.80	25.60	3.60	
3	1½	1351	31.60	4.28	48.00	40.40	3.80	
4	2	1724	33.00	5.22	61.00	53.20	3.90	
5	2½	2633	30.40	8.66	73.20	62.80	5.20	
6	4	4833	31.50	15.34	114.00	101.60	6.20	
7	6	8233	30.30	27.17	168.80	155.00	6.90	
8	8	12593	30.40	41.42	218.50	201.50	8.50	
9	10	17800	30.00	59.33	217.70	199.10	9.30	
<b>Only Nine Samples for Test</b>								

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

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To,

Deputy Director (Q.C.D)  
WASA, LDA, Lahore  
Manufacturing of R.C.C Manhole Covers WASA, L.D.A, Lahore  
(M/s Shezone Pipe Industries)

Reference # CED/TFL **2423** (Dr. M Rizwan Riaz)  
Reference of the request letter # QCD/2428-29

Dated: 08-12-2022  
Dated: 05-12-2022

**Tension Test Report** (Page – 1/2)

Date of Test 13-12-2022  
Gauge length 2 inches  
Description Angle Iron 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)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	2x2x1/4	24.90x6.60	164.34	5800	8200	346	489	0.70	35.00	
2		24.60x6.80	167.28	5900	8400	346	493	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Two Samples for Tensile and One Sample for Bend Test</b>										
<b>Bend Test</b>										
Strip Taken from Angle Iron (2"x2"x1/4") Bend Test Through 180° is Satisfactory										

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

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To,

Deputy Director (Q.C.D)  
WASA, LDA, Lahore  
Manufacturing of R.C.C Manhole Covers WASA, L.D.A, Lahore  
(M/s Shezone Pipe Industries)

Reference # CED/TFL **2423** (Dr. M Rizwan Riaz)  
Reference of the request letter # QCD/2428-29

Dated: 08-12-2022  
Dated: 05-12-2022

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

Date of Test 13-12-2022  
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Wall Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	2x2x1/4	515	103.10	5.00	49.90	49.30	6.80	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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**UET Lahore, Pakistan.**

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Ref: CED/TFL/12/2433

Dated: 09-12-2022

Dated of Test: 13-12-2022

To

**Head QA/QC**  
**Vision Developers Pvt. Ltd.**  
**Park View City Lahore**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. Nil, dated 08.12.2022 on the subject cited above. Three R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.74	7.29	12.48	8.72	1.88	9000	15000	3742	6237
2	9	7.74	7.29	12.48	8.76	1.86	9000	16000	3732	6634
3	12	7.75	7.34	16.22	12.71	1.76	7000	12000	1986	3404

**I/C Testing Laboratoires**  
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To,  
 General Manager  
 Sufi City  
 Commercial Building Projects (City Centre Block-4) at Sufi City, Mandi Bahaudin.

Reference # CED/TFL **2434** (Dr. M Yousaf)  
 Reference of the request letter # Nil

Dated: 12-12-2022  
 Dated: 09-12-2022

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

Date of Test 13-12-2022  
 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	0.376	3/8	0.375	0.11	0.110	3500	5100	70200	69890	102200	101900	1.50	18.8	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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

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To,  
 GM Construction  
 Ittefaq Building Solutions Pvt. Ltd.  
 Ahmed Latif Residence

Reference # CED/TFL **2436** (Dr. M Yousaf)  
 Reference of the request letter # Nil

Dated: 12-12-2022  
 Dated: 12-12-2022

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

Date of Test 13-12-2022  
 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	0.365	3	0.370	0.11	0.107	3600	4900	72200	73940	98200	100700	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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