



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
WASA, LDA, Lahore
(Manufacturing of R.C.C Manhole Covers WASA, L.D.A, Lahore
(m/s Eagle RCC Pipe Industry)

Reference # CED/TFL **2401** (Dr. M RizwanRiaz)
Reference of the request letter # QCD/2426-27

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

Tension Test Report (Page – 1/1)

Date of Test 09-12-2022
Gauge length 2 inches
Description Angle Iron 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle Iron	2x2x1/4	23.50x6.80	159.80	5800	9700	356	595	0.60	30.00	
-			23.40x6.80	159.12	6000	9600	370	592	0.60	30.00	
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-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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2. The above results pertain to sample /samples supplied to this laboratory.
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Ref: CED/TFL/12/2421

Dated: 07-12-2022

Dated of Test: 09-12-2022

To

Deputy Director
Pnjab Housing & Town Planning Agency
Sub-Region, Lahore
(ADS Pattoki)

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

Reference to your letter No. 1732, dated 30.11.2022 on the subject cited above. Two 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	7.82	7.35	11.30	8.95	1.17	7200	11200	2896	4505
2	12	7.77	7.37	16.18	12.11	2.04	8500	14000	2522	4153

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Deputy General Manager Projects
 Habib Rafiq Engineering (Pvt.) Limited
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL 2422 (Dr. M Rizwan Riaz)
 2022

Dated: 08-12-

Reference of the request letter # HRLE/SKG/2022/093/2418-19/RETEST Dated: 08-12-2022

Tension Test Report (Page -1/1)

Date of Test 09-12-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heal No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.389	10	9.70	0.12	0.114	3300	5400	60627	63560	99207	104100	1.20	15.0	126
2	0.421	10	10.08	0.12	0.124	3400	5900	62464	60550	108393	105100	1.30	16.3	18
3	0.411	10	9.96	0.12	0.121	3600	5700	66138	65650	104719	104000	1.40	17.5	127
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Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 M/S Sinaco Engineers (Pvt) Ltd
 Lahore
 (Construction of National Foods Galaxy Project at FIEDMC, Sahianwala, Faisalabad)

Reference # CED/TFL **2426** (Dr. M Rizwan Riaz)
 Reference of the request letter # 00289-2022

Dated: 08-12-2022
 Dated: 07-12-2022

Tension Test Report (Page -1/1)

Date of Test 09-12-2022
 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 ²)		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	0.172	2	0.253	-----	0.050	1000	2200	-----	43690	-----	96200	1.20	15.0	
2	0.174	2	0.255	-----	0.051	1120	2240	-----	48190	-----	96400	1.10	13.8	
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Note: only two samples for tensile and one sample for bend test														
Bend Test														
#2 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Project Manager
 AZ Engineering Associates
 Construction of Sports Complex at Bhikki Power Plant, Sheikhpura.

Reference # CED/TFL **2429** (Dr. M Rizwan Riaz)
 Reference of the request letter # AZEA/29551

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

Tension Test Report (Page -1/1)

Date of Test 09-12-2022
 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 ²)		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	0.368	3/8	0.371	0.11	0.108	3700	4700	74200	75370	94200	95800	1.30	16.3	Mughal Steel
2	0.366	3/8	0.370	0.11	0.108	3700	4800	74200	75720	96200	98300	1.30	16.3	
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Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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