



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

Ref: CED/TFL/01/36010

Dated: 28-01-2021

Dated of Test: 03-02-2021

To
Assistant Engineer
B&W Department
UET, Lahore
(External Development Work of Admin Site UET Lahore)

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

Reference to your letter No. B&W/AEN/1896A, dated 27.01.2021 on the subject cited above. One R.C.C. Pipe as received by us has 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.72	7.33	1.33	0.99	2.07	8000	15400	2435	4688

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Senior Engineer
 Mansoor Mazhar & Associates
 HFO Power House
 (Vision Developers)

Reference # CED/TFL **36020** (Dr. M Rizwan Riaz)
 Reference of the request letter # MMA/PVV/PH/06

Dated: 01-02-2021
 Dated: 24-01-2021

Tension Test Report (Page -1/1)

Date of Test 03-02-2021
 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	0.372	3	0.373	0.11	0.109	3100	4800	62200	62420	96200	96700	1.20	15.0	
2	0.371	3	0.372	0.11	0.109	3500	4900	70200	70830	98200	99200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Manager
 Q-Links Property Management (Private) Limited
 Construction of Jasmine Homes, Orchard Mall and Broadway Height-3 Bahria Orchard Lahore

Reference # CED/TFL **36021** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 01-02-2021
 Dated: 13-01-2021

Tension Test Report (Page -1/1)

Date of Test 03-02-2021
 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	0.381	3	0.377	0.11	0.112	4000	6000	80200	78800	120300	118200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 FM (Works Div)
 SUPARCO Office
 Works Division
 Construction of Staff Hostel with Allied Facilities at Kala Shah Kaku Lahore

Reference # CED/TFL **36025** (Dr. M Rizwan Riaz)

Dated: 02-02-2021

Reference of the request letter # 63301(3600)Works/Div/SRDC

Dated: 12-01-2021

Tension Test Report (Page -1/1)

Date of Test 03-02-2021

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.365	3	0.370	0.11	0.107	3100	4400	62200	63660	88200	90400	1.40	17.5	
2	0.363	3	0.368	0.11	0.107	3100	4400	62200	64070	88200	91000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sr. Project Manager
 Izhar Construction (Pvt) Ltd
 Construction of Structural Works of Dolmen Shopping Mall DHA Lahore

Reference # CED/TFL **36027** (Dr. M Rizwan Riaz)
 Reference of the request letter # ICPL/CONST-DML/20/35

Dated: 02-02-2021
 Dated: 02-02-2021

Tension Test Report (Page -1/1)

Date of Test 03-02-2021
 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 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	0.418	10	10.05	0.12	0.123	4100	5000	75324	73540	91858	89700	1.00	12.5	Amreli Steel
2	0.416	10	10.02	0.12	0.122	4100	4900	75324	73980	90021	88500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Construction Manager
 Deever Developers (Pvt)Ltd.
 (Construction of Zameen Opal, Plot no.16, Sector-A, Land Breeze Housing Society, Raiwind Road Lahore.

Reference # CED/TFL **36033** (Dr. M Rizwan Riaz)
 Reference of the request letter # ZD/ZO/L/020

Dated: 03-02-2021
 Dated: 03-02-2021

Tension Test Report (Page -1/1)

Date of Test 03-02-2021
 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	4.160	10	1.248	1.27	1.223	39000	59400	67700	70290	103100	107100	1.30	16.3	
2	4.353	10	1.276	1.27	1.280	40000	62400	69500	68900	108300	107500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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