



**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/09/36984

Dated: 01-09-2021

Dated of Test: 09-09-2021

To  
**Assistant Director**  
**Dev Dte DHA Quetta**  
**(Sector A3)**

Subject: **TESTING OF R.C.C. PIPE** (Page – 1/2)

Reference to your letter No. DHAQ/JSI/SAC/01, dated 23.08.2021 on the subject cited above. Two R.C.C. Pipes 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	9	5.78	5.34	0.92	0.74	1.08	2000	2500	1119	1399
2	9	7.69	6.89	0.98	0.78	1.19	8200	14500	3364	5948

1 = M/s Kasi RCC Pipe Factory Alamu Chowk Quetta.

2 = M/s Homeland Associates RCC Pipe Factory at round about DHA Quetta.

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

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 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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Dated: 01-09-2021

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To  
**Assistant Director**  
**Dev Dte DHA Quetta**  
**(Sector A3)**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page – 2/2)

Reference to your letter No. DHAQ/JSI/SAC/01, dated 23.08.2021 on the subject cited above. Two R.C.C. Pipes 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	5.74	5.26	1.21	1.01	1.20	1900	2300	788	954
2	12	7.77	7.34	1.31	0.96	2.09	10300	14400	3231	4517

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Ref: CED/TFL/09/37022

Dated: 08-09-2021

Dated of Test: 09-09-2021

To  
**Senior Resident Engineer**  
**Mansoor Mazhar & Associates**  
**Park View City Lahore**  
**(Vision Developers Private Limited)**

Subject: **TESTING OF R.C.C. PIPE (Page – 1/1)**

Reference to your letter No. MMA/PVC/MH/20, dated 27.08.2021 on the subject cited above. Two R.C.C. Pipes 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	9	7.77	7.28	1.06	0.77	1.74	6200	7200	2451	2846
2	9	7.78	7.29	1.05	0.76	1.73	5400	6500	2147	2585

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

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To,  
 Resident Engineer  
 Engineering Consultancy Services Punjab (Pvt) Ltd.  
 Supply Construction Installation of Water Filtration Plants and Direct Supply in Faisalabad  
 Division

Reference # CED/TFL **37025** (Dr. Usman Akmal)  
 Reference of the request letter # ECSP/PA{A/CZ-FSD-20

Dated: 09-09-2021  
 Dated: 08-09-2021

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

Date of Test 09-09-2021  
 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 <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	0.382	3	0.378	0.11	0.112	3600	4800	72200	70760	96200	94400	1.00	12.5	Mughal Steel
2	0.384	3	0.379	0.11	0.113	3800	4900	76200	74170	98200	95700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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