



**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/02/36127, 36155  
2021

Dated: 24-02-

Dated of Test: 02-03-2021

**To**  
**Material Engineer**  
**CGICOP**  
**(Al-Madina Rcc Pipe Factory, Swat)**

**Subject: TESTING OF R.C.C. PIPE (Page -1/4)**

Reference to your letter No. CGICOP-DASU-PCI-01R/QC-041, dated 24.02.2021 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	6	5.83	5.42	0.67	0.50	0.98	2000	2800	1620	2268

**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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To  
**Material Engineer**  
**CGICOP**  
**(Al-Madina Rcc Pipe Factory, Swat)**

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/4)**

Reference to your letter No. CGICOP-DASU-PCI-01R/QC-041, dated 24.02.2021 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	5.74	5.31	0.94	0.73	1.25	4000	8200	2274	4662
2	12	5.75	5.37	1.21	0.98	1.38	4500	8600	1890	3612

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**UET Lahore, Pakistan.**

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To,  
 Material Engineer  
 CGICOP  
 (Al-Madina Rcc Pipe Factory, Swat)

Reference # CED/TFL **36127, 36155** (Engr. M Rehan Ashraf)  
 Reference of the request letter # CGICOP-DASU-PCI-01R/QC-041

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

**Tension Test Report** (Page -3/4)

Date of Test 03-02-2021  
 Gauge length 8 inches  
 Description Steel Bar (From RCC Pipe) Tensile and Bend Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (in)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Pipe Diameter
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.059	-----	0.148	-----	0.017	-----	480	-----	-----	-----	61200	0.30	3.8	6"
2	0.056	-----	0.145	-----	0.016	-----	520	-----	-----	-----	69600	0.25	3.1	
3	0.124	-----	0.216	-----	0.037	-----	1920	-----	-----	-----	115900	0.40	5.0	9"
4	0.125	-----	0.216	-----	0.037	-----	1960	-----	-----	-----	117800	0.40	5.0	
5	0.074	-----	0.167	-----	0.022	-----	1200	-----	-----	-----	121300	0.30	3.8	12"
6	0.075	-----	0.168	-----	0.022	-----	1200	-----	-----	-----	119900	0.30	3.8	

**Note: only six samples for tensile and three samples for bend test**

**Bend Test**

Steel Bar taken from Rcc Pipe 6" Dia Bend Test Through 180° is Satisfactory

Steel Bar taken from Rcc Pipe 9" Dia Bend Test Through 180° is Satisfactory

Steel Bar taken from Rcc Pipe 12" Dia Bend Test Through 180° is Satisfactory

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

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

**Test Report**(Page -4/4)

Date of Test 03-02-2021  
Description RCC Pipe

Sr. No.	Nominal Size	Number of Longitudinal Steel Bars	Number of Steel Ring
	(inch)		
1	6	3	18
2	9	4	18
3	12	4	18
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Note: only three Pipes for test</b>			

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

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