

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

Ref: <u>CED/TFL/05/1322</u> Dated: <u>25-04-2022</u>

Dated of Test: 19-05-2022

To

Flight Lieutenant Assistant Director Fazaia Housing Scheme Commercial Area at Fazaia Housing Scheme-I (Phase-III) Lahore

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

Reference to your letter No. FHSL/5711/1/Org, dated 07.04.2022 on the subject cited above. Three R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	<b>Loaded Length</b>	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	7.79	7.33	12.56	9.04	1.76	14000	16900	5592	6750
2	12	7.77	7.33	16.02	11.66	2.18	8200	13700	2540	4244
3	15	7.82	7.33	19.76	15.21	2.28	8900	15500	2112	3678

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
- 2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To, Project Director New Metro City Housing Scheme Sara-I-Alamgir

Reference # CED/TFL 1408 (Dr. Asad Ali)

Reference of the request letter # PD/NMC/22/101

Dated: 18-05-2022

Dated: 17-05-2022

**Tension Test Report** (Page -1/2)

Date of Test 19-05-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.		Diameter/ Size (inch)		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.402	3/8	0.388	0.11	0.118	4150	5100	83200	77500	102200	95300	1.10	13.8	_ e
-	-	-	-	-	-	-	-	-	-	-	-	-	-	ST Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	'		N	ote: on	ly one s	ample fo	r tensile	and one	sample fo	or bend to	est			
3/8"	' Dia Ba	ır Rend	Test Th	rough	120° is 9	Satisfacto	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

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To, Project Director New Metro City Housing Scheme Sara-I-Alamgir

Reference # CED/TFL 1408 (Dr. Asad Ali)

Reference of the request letter # PD/NMC/22/102

Dated: 18-05-2022

Dated: 17-05-2022

**Tension Test Report** (Page -2/2)

Date of Test 19-05-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Size Area $(in^2)$		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.377	3/8	0.376	0.11	0.111	3520	5300	70600	69980	106200	105400	1.10	13.8	e 2
-	-	-	-	-	-	-	-	-	-	-	_	-	-	Afco Steel
-	-	-	_	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	_	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est			
3/8	" Dia Ba	ır Bend	Test Tl	nrough	180° is S	Satisfacto	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To, Sr. Engineer (Civil), SWP Pakistan Atomic Energy Commission D.G. Khan

Reference # CED/TFL 1411 (Dr. M Rizwan Riaz)

Reference of the request letter # WASO-CMD-LOI 75/C

Dated: 19-05-2022

Dated: 17-05-2022

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

Date of Test 19-05-2022 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.374	3	0.374	0.11	0.110	3430	4840	68800	68770	97000	97100	1.20	15.0	
2	0.374	3	0.374	0.11	0.110	3430	4760	68800	68860	95400	95600	1.00	12.5	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend t	test	I		
							Bend T	est est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

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