



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/02/4647

Dated: 14-02-2024

Dated of Test: 20-02-2024

To

Engineer
Dy Dir Infra
Defence Housing Authority
Gujranwala
“Executive Block”

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -1/1)

Reference to your letter No. 111/15/DD/RS/Lab/Ecec-B/460, dated 12.02.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	15	7.82	7.33	19.37	14.49	2.44	8500	10000	2117	2490

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
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Ref: CED/TFL/02/4657

Dated: 16-02-2024

Dated of Test: 20-02-2024

To

Cantonment Executive Officer
Lahore Cantonment Board
Lahore
(Laying of Sewer Line at Tariq Road.)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -1/1)

Reference to your letter No. SCE/Tender-2023-24/8033, dated 29.12.2023

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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.76	7.28	23.15	17.95	2.60	18000	23000	3642	4653

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Assistant Engineer
Evacuee Trust Property Board
Government of Pakistan
“Reconstruction of Boundary Wall at Sikh and Hindu Shamshan Ghat Babu Sabu
Lahore.”

Reference # CED/TFL **4661** (Dr. Usman Akmal)
Reference of the request letter # 1143

Dated: 19-02-2024
Dated: 19-02-2024

Tension Test Report (Page -1/1)

Date of Test 20-02-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Diameter/ Size (inch)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3/8	0.372	0.11	0.109	3740	4960	75000	75950	99400	100800	1.20	15.0	
2	0.366	3/8	0.370	0.11	0.108	3670	5050	73600	75200	101200	103500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Assistant Resident Engineer
Peas Consulting & Jv, Islamabad
Paradise City Bridge

Reference # CED/TFL **4662** (Dr. Safer Abbass)
Reference of the request letter # PEAS/Paradise/2024/07

Dated: 19-02-2024
Dated: 17-02-2024

Tension Test Report (Page -1/3)

Date of Test 20-02-2024
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	780.0	786.0	17700	173.64	20100	197.18	199	>3.50	4401
2	12.70 (1/2")	780.0	785.0	17900	175.60	19900	195.22	199	>3.50	4428
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-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only two samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

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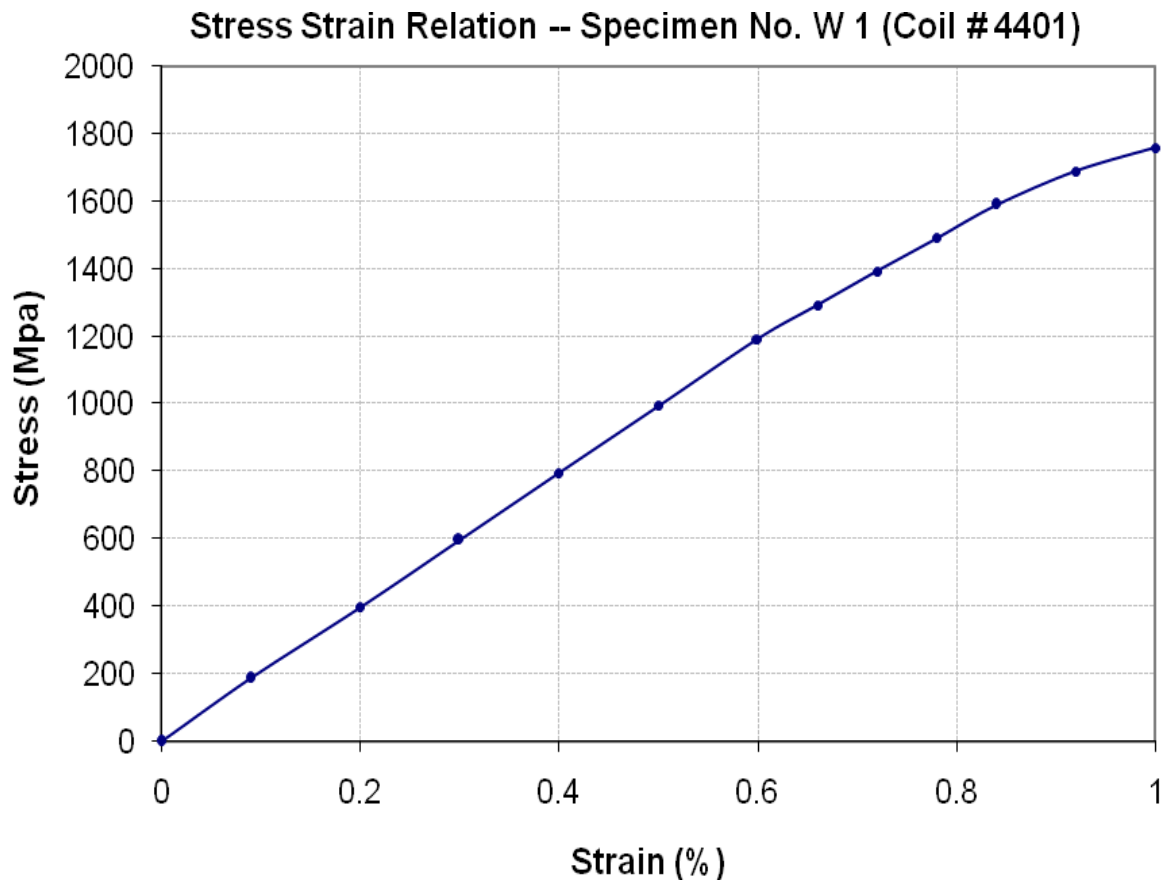
To,

Assistant Resident Engineer
Peas Consulting & Jv, Islamabad
Paradise City Bridge

Reference # CED/TFL **4662** (Dr. Safer Abbass)
Reference of the request letter # PEAS/Paradise/2024/07

Dated: 19-02-2024
Dated: 17-02-2024

Graph (Page – 2/3)



I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Assistant Resident Engineer
Peas Consulting & Jv, Islamabad
Paradise City Bridge

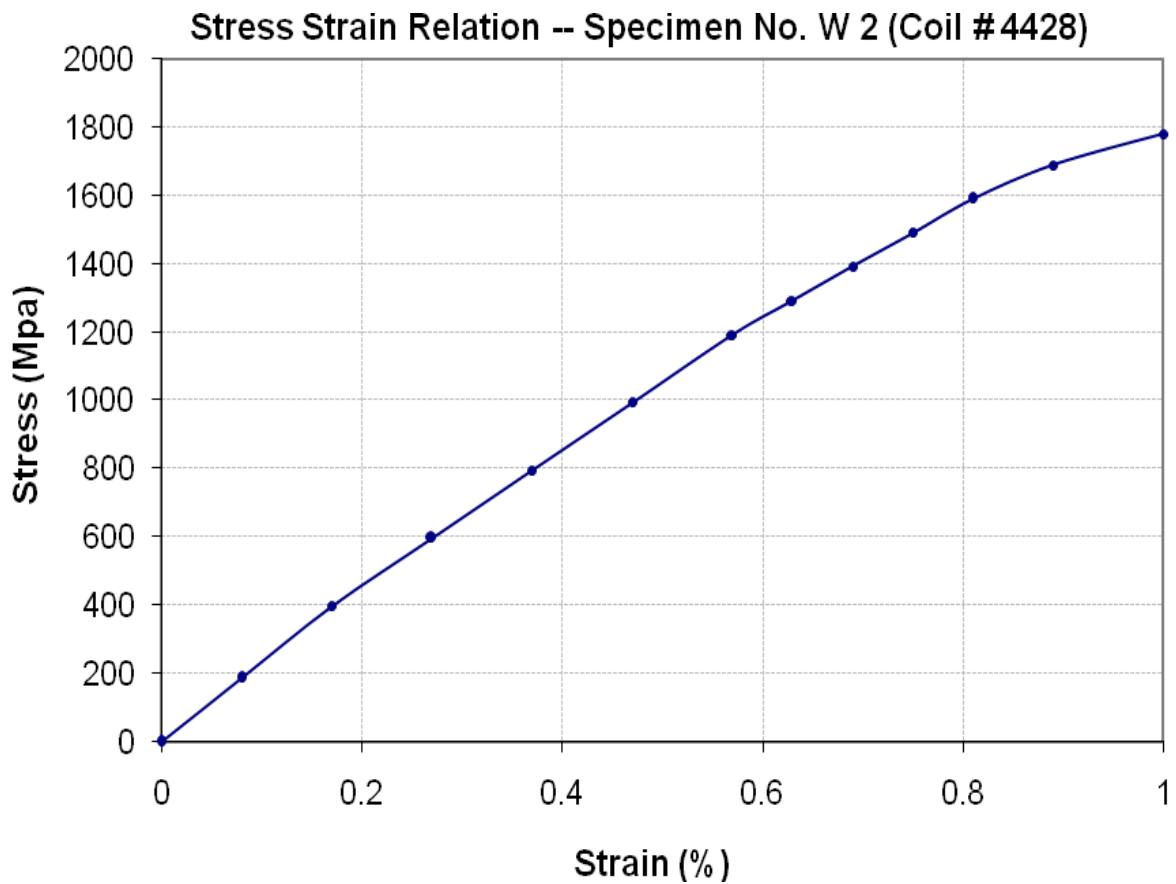
Reference # CED/TFL **4662** (Dr. Safer Abbass)

Dated: 19-02-2024

Reference of the request letter # PEAS/Paradise/2024/07

Dated: 17-02-2024

Graph (Page – 3/3)



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To,
 Project Architect
 Architect's Inn
 "Construction of MAW Industrial Site Sialkot."

Reference # CED/TFL **4664** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 19-02-2024
 Dated: 19-02-2024

Tension Test Report (Page -1/1)

Date of Test 20-02-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Diameter/ Size (inch)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Nominal	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.367	10	9.42	0.12	0.108	3310	5050	60810	67570	92777	103100	1.30	16.3	
2	0.367	10	9.41	0.12	0.108	3360	5120	61729	68710	94063	104700	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														

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