



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/05/36402

Dated: 30-04-2021

Dated of Test: 19-05-2021

To
Assistant Resident Engineer
Asian Consulting Engineers
Rehabilitation of Municipal Services Infrastructure (M & R) Punjab Cities Program
(PCP) - Package 2 - MC Jhang

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

Reference to your letter No. AsCE-PMDFC-JH-ARE-041, dated 17.12.2020 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	7.77	7.29	1.33	1.00	1.95	7000	10100	2116	3053

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
- 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,
M/S Prefab Services (Pvt) Ltd
Wah Cantt, Taxila

Reference # CED/TFL **36444** (Dr. Waseem Abbass)
Reference of the request letter # PSL/MTL/21/019-A

Dated: 18-05-2021

Dated: 04-05-2021

Tension Test Report (Page – 1/1)

Date of Test 19-05-2021

Gauge length 2 inches

Description Welded Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
1	Welded Pipe	21.90x8.00	175.20	7800	436.75	0.50	25.00	Failure at the location other than weld
2		22.00x8.00	176.00	8000	445.91	0.50	25.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Only two samples for tensile and four samples for bend test

Bend Test

Strip taken from Welded Pipe Root Bend Test Through 180° is Satisfactory

Strip taken from Welded Pipe Root Bend Test Through 180° is Satisfactory

Strip taken from Welded Pipe Face Bend Test Through 180° is Satisfactory

Strip taken from Welded Pipe Face Bend Test Through 180° is Satisfactory

I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/05/36445

Dated: 18-05-2021

Dated of Test: 19-05-2021

To
Resident Project Manager / Resident Engineer
Zeeruk International (Pvt) Ltd
Construction Supervision of The Main Dual Expressway DHA - Quetta

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

Reference to your letter No. 5065057/2/1/00014, dated 05.04.2021 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	7.75	7.34	1.34	1.01	2.00	9200	11200	2748	3345

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Ibrahim Nizami Steel Wire Ind. (Pvt) Ltd
Lahore

Reference # CED/TFL **36446** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 19-05-2021

Dated: 19-05-2021

Tension Test Report (Page -1/1)

Date of Test 19-05-2021
Gauge length 2 inches
Description Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.106	4.20	4.15	-----	13.5	2360	2640	1713	1916	0.15	7.5	R 204
2	0.107	4.20	4.17	-----	13.7	2440	2800	1750	2008	0.10	5.0	R 304
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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