



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/02/2819

Dated: 21-02-2023

Dated of Test: 01-03-2023

To

Asst Dir Dev
Defence Housing Authority
Gujranwala
Sector C

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

Reference to your letter No. 111/15/AD/RS/Pkg-2A/1067, dated 16.02.2023 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	21	7.69	7.22	26.61	20.86	2.88	13780	18020	2422	3167
2	24	7.76	10.25	30.00	23.60	3.20	7430	11240	813	1229

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



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Ref: CED/TFL/02/2858

Dated: 28-02-2023

Dated of Test: 01-03-2023

To

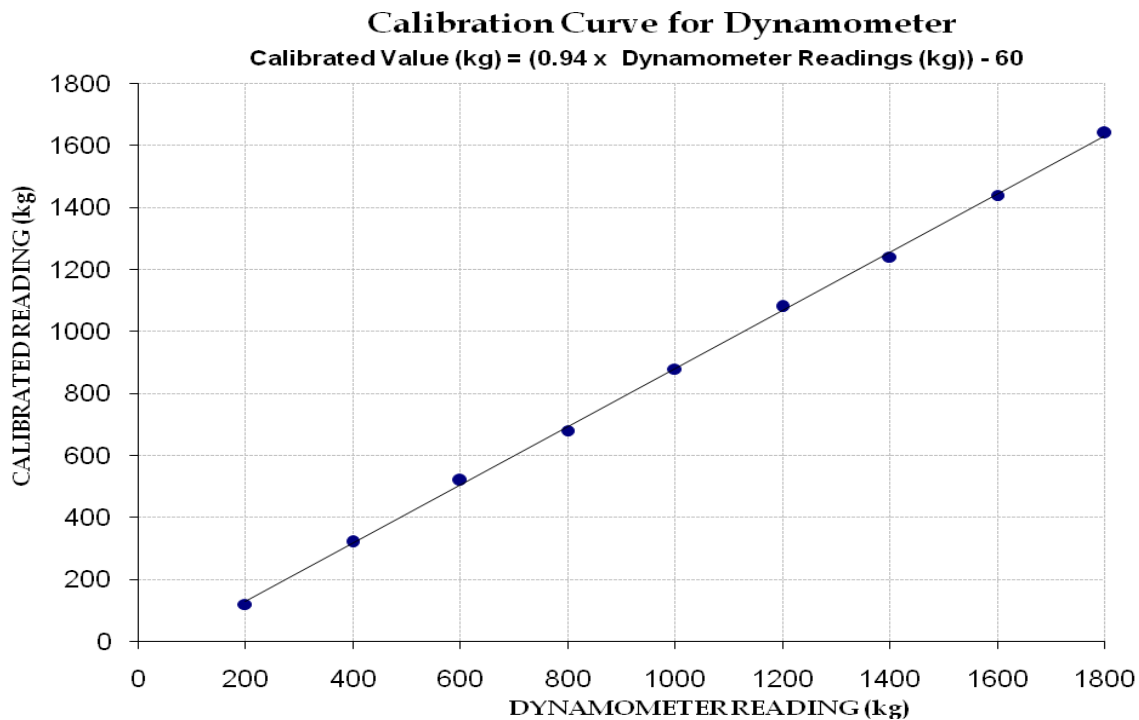
M/S Farooq Khan & Brothers (Pvt) Ltd
Sibi

Subject: - **CALIBRATION OF DYNAMOMETER (MARK: TFL/02/2858)** (Page -1/1)

Ref: Your letter No. Nil, dated: 28/02/2023 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 2000 (kg)
Calibrated Range : Zero - 1800 (kg)

Dynamometer Readings (kg)	200	400	600	800	1000	1200	1400	1600	1800
Calibrated Readings (kg)	120	320	520	680	880	1080	1240	1440	1640



I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Asst Dir Infra
Defence Housing Authority
Gujranwala
"Sector C"

Reference # CED/TFL **2860** (Dr. Ali Ahmed)

Dated: 01-03-2023

Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2A/1180

Dated: 16-02-2023

Tension Test Report (Page -1/1)

Date of Test 01-03-2023

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 ²)		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	0.366	3	0.370	0.11	0.108	3200	5000	64200	65510	100200	102400	1.00	12.5	Nonee Steel	
2	0.363	3	0.368	0.11	0.107	3200	4900	64200	66150	98200	101300	1.20	15.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample for bend test															
Bend Test															
#3 Bar Bend Test Through 180° is Satisfactory															

Witness by Hafiz Danish Waqas (DHA Lab)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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