



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

To,
Defence Housing Authority
Lahore
(1x Entry Gate Towards Ring Road Sec-F, Prism-9, DHA Ph-IX –(M/S –N.A. Associates)

Reference # CED/TFL **35858** (Dr. Qasim Khan)

Dated: 01-01-2021

Reference of the request letter # 408/241/E/Lab/1069/-

Dated: 22-12-2020

Tension Test Report (Page – 1/1)

Date of Test 18-01-2021

Gauge length 2 inches

Description MS Sheet & MS Angle Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	1/4	23.10x5.8	133.98	5300	7300	388.07	534.51	0.60	30.00	
2		23.10x5.8	133.98	5300	7400	388.07	541.83	0.55	27.50	
3	2x2x1/4	23.00x5.8	133.40	5500	8600	404.46	632.43	0.50	25.00	
4		23.00x5.8	133.40	5700	8900	419.17	654.49	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only four Samples for Tensile two for Bend Test										
Bend Test										
Strip taken from Steel Sheet (1/4") Bend Test Through 180° is Satisfactory										
Strip taken from Steel Angle (2"x2"x1/4") Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Ref: CED/TFL/09/35933

Dated: 13-01-2021

Dated of Test: 18-01-2021

To
Sub Divisional Officer
Public Health Engg. Sub Division
Malikwal
(Construction of Sewerage in UC Gunian Village Sanda)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page:1/2)

Reference to your letter No. 8/MW, dated 20.12.2020 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	7.34	1.33	0.98	2.07	11000	15300	3371	4689

I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/09/35933

Dated: 13-01-2021

Dated of Test: 18-01-2021

To
Sub Divisional Officer
Public Health Engg. Sub Division
Malikwal
(Construction of Sewerage in UC Gunian Village Sanda)

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

Reference to your letter No. 8/MW, dated 20.12.2020 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	18	7.82	7.30	1.92	1.50	2.49	7600	12000	1530	2415

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To,
 Defence Housing Authority
 Lahore
 (Infra Development Work, Sector- R, DHA Ph-VII-(M/S DHA-C)) (Koh-i-Noor Steel)

Reference # CED/TFL **35943** (Dr. Qasim Khan)
 Reference of the request letter # 408/241/E/Lab/15/4R/HW

Dated: 15-01-2021
 Dated: 15-01-2021

Tension Test Report (Page -1/1)

Date of Test 18-01-2021
 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	0.388	3	0.381	0.11	0.114	3400	5400	68200	65760	108200	104500	1.10	13.8	
2	0.371	3	0.373	0.11	0.109	3500	4900	70200	70690	98200	99000	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Deevar Developers (Pvt)Ltd.
 Lahore
 (Construction of Zameen Opal, Plot no.16, Sector-A, Land Breeze Housing Society, Raiwind Road Lahore.
 Reference # CED/TFL **35947** (Dr. Qasim Khan) Dated: 18-01-2021
 Reference of the request letter # ZD/ZO/L/015 Dated: 18-01-2021

Tension Test Report (Page -1/1)

Date of Test 18-01-2021
 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	0.370	3	0.372	0.11	0.109	3300	4900	66200	66950	98200	99500	1.30	16.3	
2	0.373	3	0.374	0.11	0.110	3400	5100	68200	68270	102200	102500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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Note:

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