



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/07/35094

Dated: 07-07-2020

Dated of Test: 08-07-2020

To
Project Manager
Aujla & Associates
Royal Palm City Housing Scheme Gujranwala
(Extension & Modification Work)

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

Reference to your letter No. Nil, dated 07.07.2020 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	9	7.80	7.30	1.04	0.76	1.67	12300	18300	4854	7222

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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To
Project Manager
Aujla & Associates
Royal Palm City Housing Scheme Gujranwala
(Extension & Modification Work)

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

Reference to your letter No. Nil, dated 07.07.2020 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	7.79	7.33	1.35	1.01	2.03	11500	15200	3413	4511

I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/07/35096

Dated: 08-07-2020

Dated of Test: 08-07-2020

To
Resident Engineer
NESPAK
Infrastructure Works of DHA Housing Scheme Gujranwala
(M/s National Logistics Cell)

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

Reference to your letter No. 4055/13/SA/09/743, dated 19.06.2020 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	7.72	7.35	1.92	1.50	2.56	10100	12700	2024	2545

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Mughal Iron & Steel Industries Limited
Lahore

Reference # CED/TFL **35099** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 08-07-2020
Dated: 08-07-2020

Tension Test Report (Page -1/1)

Date of Test 08-07-2020
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.228	32	31.95	1.25	1.243	47000	62000	82893	83360	109348	110000	1.30	16.3	Mughal Steel
2	4.200	32	31.85	1.25	1.235	45000	60000	79366	80340	105821	107200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Naveed Ahmed (Manager Q.C – Mughal Steel)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer - I
 NESPAK
 Construction Underpass at Firdous Market, Lahore

Reference # CED/TFL **35101** (Dr. Qasim Khan)
 Reference of the request letter # 3772/FMU/103/MWA/04/85

Dated: 08-07-2020
 Dated: 07-07-2020

Tension Test Report (Page -1/1)

Date of Test 08-07-2020
 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	4.126	10	1.243	1.27	1.213	37800	52800	65600	68700	91700	96000	1.30	16.3	Pak Steel
2	4.123	10	1.242	1.27	1.212	37600	53000	65300	68380	92000	96400	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Engr. Raheel Asghar (NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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