



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/10/35328

Dated: 19-10-2020

Dated of Test: 26-10-2020

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

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

Reference to your letter No. 3772/FMU/103/MWA/04/243, dated 28.09.2020 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	30	8.01	7.67	3.08	2.47	3.62	19500	27270	2266	3170

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Assistant Resident Engineer
 Material Engineer AZEA
 Kamoki Residency
 Construction of RCC Road (Dual Carriageway) from Alam Chowk to Ladhewala Warriach
 (Section Rajbah to Islam City) L=2.56 km (Group No. 2 from RD 104+00 to 132+00=2800 Rft
 or 0.85 km) District Gujranwala
 Reference # CED/TFL **35548** (Dr. Qasim Khan) Dated: 23-10-2020
 Reference of the request letter # AZEA/REKMK/1073 Dated: 25-09-2020

Tension Test Report (Page -1/1)

Date of Test 26-10-2020
 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	0.364	3	0.369	0.11	0.107	2700	4100	54100	55550	82200	84400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Development Works at OHWT Bdry Wall, Sector-X, DHA Ph-VIII (M/s Excellent Builders))

Reference # CED/TFL **35550** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/1012/206

Dated: 23-10-2020
Dated: 22-10-2020

Tension Test Report (Page -1/1)

Date of Test 26-10-2020
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	0.386	3	0.380	0.11	0.113	3600	4900	72200	69990	98200	95300	1.20	15.0	FF Steel
2	0.381	3	0.378	0.11	0.112	3800	5000	76200	74740	100200	98400	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Park Avenue Housing Society
Lahore

Reference # CED/TFL **35551** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 23-10-2020
Dated: 23-10-2020

Tension Test Report (Page -1/1)

Date of Test 26-10-2020
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	0.391	3	0.382	0.11	0.115	3800	4900	76200	72900	98200	94000	1.00	12.5	
2	0.390	3	0.382	0.11	0.115	3700	4800	74200	71200	96200	92400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Asstt: Executive Engineer
 Central Civil Division-I
 Pak. PWD; Lahore
 (Construction of 2nd Floor of Bolan Hostel at Civil Services Academy Walton Lahore)

Reference # CED/TFL **35552** (Dr. Qasim Khan)
 Reference of the request letter # AEE-IV/LCCD-I/152

Dated: 23-10-2020
 Dated: 20-10-2020

Tension Test Report (Page -1/1)

Date of Test 26-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.361	3/8	0.368	0.11	0.106	3700	5300	74200	76810	106200	110100	1.00	12.5	
2	0.362	3/8	0.368	0.11	0.106	3600	5300	72200	74530	106200	109800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Assistant Director-II
 Building Research Station
 Lahore
 (FF Steel)

Reference # CED/TFL **35553** (Dr. Qasim Khan)
 Reference of the request letter # 154-R/5002

Dated: 23-10-2020
 Dated: 23-10-2020

Tension Test Report (Page -1/1)

Date of Test 26-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.390	3/8	0.382	0.11	0.115	3600	4800	72200	69190	96200	92300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Bar Bend Test Through 180° is Satisfactory														

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