



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/12/34273

Dated: 06-12-18

Dated of Test: 17-12-18

To
Deputy Director
Punjab Housing & Town Planning Agency
Sub Region, Gujranwala
(Laid Area Development Scheme, No II, Hafizabad)

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

Reference to your letter No. 701, dated 22.10.2019 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
	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	228.6 (9")	2.394	2.242	283.00	224.34	29.33	11000	17000	214.55	331.57
2	304.8 (12")	2.358	2.235	412.00	309.86	51.07	17000	25000	240.81	354.13

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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Ref: CED/TFL/12/34289

Dated: 09-12-18

Dated of Test: 17-12-18

To
Maintenance Engineer-II
University of The Punjab
Sewer Line from Cricket Atadium to Near Girls Hostel No. 1

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

Reference to your letter No. 1249-MEII, dated 29.11.2019 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
	(mm)	(m)	(m)	(mm)	(mm)	(mm)	(kg)	(kg)	N/m/mm	N/m/mm
1	381.0 (15")	2.376	2.235	500.00	382.00	59.00	9500	14500	109.16	166.61

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Maintenance Engineer-II
 University of The Punjab
 Sewer Line from Cricket Atadium to Near Girls Hostel No. 1

Reference # CED/TFL **34289** (Dr. Ali Ahmed)
 Reference of the request letter # 1249-MEII

Dated: 09-12-2019
 Dated: 29-11-2019

Tension Test Report (Page -2/2)

Date of Test 17-12-2019
 Gauge length 8 inches
 Description Steel Bar (From RCC Pipe 15") Tensile Test

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	0.104	3/16	0.197	-----	0.031	1300	1500	-----	93560	-----	108000	0.50	6.3	
2	0.104	3/16	0.198	-----	0.031	1260	1480	-----	90640	-----	106500	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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To,
 Executive Engineer
 Building Division No. 2
 Faisalabad

Reference # CED/TFL **34322** (Dr. Ali Ahmed)
 Reference of the request letter # 3651/CB

Dated: 13-12-2019
 Dated: 10-12-2019

Tension Test Report (Page -1/1)

Date of Test 17-12-2019
 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	0.389	3/8	0.382	0.11	0.114	3400	5200	68200	65470	104200	100200	1.10	13.8	
2	0.393	3/8	0.383	0.11	0.115	3600	5300	72200	68730	106200	101200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 General Manager (Const)
 Potential Engineers (Pvt) Limited
 Construction of Foundations, Erection, Stringing Testing and Commission of 220kV D/C NKLP-
 Sarfraz Nagar Transmission Line in/out at 220kV Ghazi Grid Station Lahore (City UAE Steel)

Reference # CED/TFL **34323** (Dr. Ali Ahmed)
 Reference of the request letter # PE-Ghazi Road/TL/509

Dated: 16-12-2019
 Dated: 16-12-2019

Tension Test Report (Page -1/1)

Date of Test 17-12-2019
 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	5.153	11	1.389	1.56	1.515	42600	68800	60200	61990	97300	100200	1.70	21.3	
2	5.160	11	1.390	1.56	1.517	44000	72000	62200	63950	101800	104700	1.40	17.5	
3	5.121	11	1.384	1.56	1.505	49600	76400	70100	72630	108000	111900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and three samples for bend test														
Bend Test														
# 11 Bar Bend Test Through 180° is Satisfactory														
# 11 Bar Bend Test Through 180° is Satisfactory														
# 11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/12/34327

Dated: 16-12-19

Dated of Test: 17-12-19

To
M/S Baba Mughal Hussain Drilling Co.
Islamabad
(The Aquatic Mall Project Islamabad)

Subject: - TEST RESULT REPORT FOR MS C-CHANNEL RECTION BEAM FOR BEARING LOAD TEST

Reference to your letter no. 93, dated: 16/12/2019 on the above mentioned subject. One MS Channel Reaction Beam for bearing load test as received by us has been tested and results are given below:

Sr. No.	Contact Area of Bearing Plate at Center	Design / Applied Load	Remarks
1	6"x6"	50 Ton	The MS Channel is Safe at 50 ton applied load



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Fig : Loading Argement

To,
 Senior Manager Civil - OTL
 Orient
 Orient Sqaure Hostel Tower Johar Town, Lahore
 (Afco Steel)

Reference # CED/TFL **34331** (Dr. Ali Ahmed)

Dated: 17-12-2019

Reference of the request letter # ORIENT/AFCO/Hostel Tower/Steel/017

Dated: 17-12-2019

Tension Test Report (Page -1/1)

Date of Test 17-12-2019

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	4.164	32	31.71	1.25	1.224	34800	57800	61376	62670	101941	104100	1.50	18.8	
2	4.255	32	32.05	1.25	1.251	35200	59000	62082	62030	104057	104000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 M Omair (Orient), & Asad (Izhar)

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UET Lahore, Pakistan.

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To,
 Project Manager
 Liberty Builders
 (Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore)

Reference # CED/TFL **34332** (Dr. Ali Ahmed)
 Reference of the request letter # ST/UET/20191217

Dated: 17-12-2019
 Dated: 17-12-2019

Tension Test Report (Page -1/1)

Date of Test 17-12-2019
 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	0.359	3	0.367	0.11	0.106	3100	4300	62200	64670	86200	89800	1.20	15.0	Model
2	0.378	3	0.376	0.11	0.111	3100	4600	62200	61480	92200	91300	1.20	15.0	
3	0.338	3	0.356	0.11	0.099	3000	4100	60200	66540	82200	91000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
# 3 Bar Bend Test Through 180° is Satisfactory														

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