



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/12/35760

Dated: 14-12-2020

Dated of Test: 05-01-2021

To

Sub Divisional Officer
Public Health Engg: Sub Division
Phalia

**(Construction of Sewerage, PCC, Drain, Tuff Tile and Soling in UC Saida Sharif
Village Saida Sharif, Dandka, Dhola Tehsil Phalia District Mandi Bahauddin)**

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

Reference to your letter No. 294/P, dated 19.06.2020 on the subject cited above. Four 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.36	1.34	1.02	1.94	17000	24300	5017	7172
2	15	7.76	7.26	1.63	1.22	2.46	13500	20400	3355	5070
3	18	7.79	7.33	1.92	1.49	2.56	9200	16000	1855	3227
4	21	7.80	7.15	2.20	1.73	2.86	13680	20470	2439	3650

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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/12/35832

Dated: 29-12-2020

Dated of Test: 05-01-2021

To
Assistant Resident Engineer
Asian Consulting Engineers Pvt. Ltd
Rehabilitation of Municipal Services Infra Structures (M&R) PCP-Package -2
PMDFC Group A

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

Reference to your letter No. ASCE-PMDFC-OK-ARE-015/A, dated 17.12.2020 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	15	7.78	7.02	1.61	1.21	2.43	6100	10100	1583	2622

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
M/S Stallion Engineering
Lahore
(SRA Gate House DHA Multan)

Reference # CED/TFL **35846** (Dr. Waseem Abbass)
Reference of the request letter # DHA/MG/223/MT/02

Dated: 30-12-2020

Dated: 08-12-2020

Tension Test Report (Page – 1/1)

Date of Test 05-01-2021

Gauge length 2 inches

Description Flat Bar Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	4	26.30x4.00	105.20	3100	4700	289.08	438.28	0.85	42.50	
2		26.30x4.00	105.20	3100	4600	289.08	428.95	0.85	42.50	
3	5	26.30x5.00	131.50	5200	7200	387.92	537.13	0.70	35.00	
4		26.30x5.00	131.50	5200	7200	387.92	537.13	0.70	35.00	
-	6	26.40x6.00	158.40	5400	8200	334.43	507.84	0.75	37.50	
-		26.40x6.00	158.40	5500	8200	340.63	507.84	0.75	37.50	
	8	26.40x8.00	211.20	8900	12100	413.39	562.03	0.70	35.00	
		26.40x8.00	211.20	8800	12100	408.75	562.03	0.70	35.00	
	10	26.40x10.00	264.00	9800	14000	364.16	520.23	0.80	40.00	
		26.40x10.00	264.00	10000	14000	371.59	520.23	0.85	42.50	
	12	26.40x11.85	312.84	10600	15000	332.39	470.37	0.85	42.50	
		26.40x11.85	312.84	10700	14900	335.53	467.23	0.90	45.00	
Only Twelve Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Haris & Company
Lahore
(Hi- Tech Blending Expansion of Base Oil Storage Tnks (T- 11 & T- 12))

Reference # CED/TFL **35853** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 31-12-2020
Dated: 31-12-2020

Tension Test Report (Page – 1/1)

Date of Test 05-01-2021
Gauge length 2 inches
Description Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	10	20.70x10.20	211.14	8100	10600	376.34	492.50	0.70	35.00	
2		20.70x10.20	211.14	8200	10600	380.99	492.50	0.80	40.00	
3	12	20.70x11.75	243.23	9300	11000	375.10	443.66	0.75	37.50	
4		20.70x11.75	243.23	9500	11400	383.16	459.80	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Chief Executive
 Paidar Builders (Pvt) Ltd
 Construction of TCF Schools of 37 Rooms and 12 Toilets at District Kasur

Reference # CED/TFL **35863** (Dr. Waseem Abbass)
 Reference of the request letter # PBL/UET/2020-389

Dated: 04-01-2021
 Dated: 26-12-2020

Tension Test Report (Page -1/1)

Date of Test 05-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.395	3/8	0.384	0.11	0.116	3800	5000	76200	72170	100200	95000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
 Executive Engineer
 Highway Division
 Bahawalpur
 Dualization of Road from Uch Sharif to Ahmedpur East (Length: 27.25 km) District Bahawalpur
 Construction of Bridge over Abbasia Canal (Lallu Wali Mori)(Pile Foundation Bridge)

Reference # CED/TFL **35865** (Dr. Waseem Abbass)
 Reference of the request letter # 7805-06CB

Dated: 04-01-2021
 Dated: 31-12-2020

Tension Test Report (Page -1/1)

Date of Test 05-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.377	3/8	0.376	0.11	0.111	3200	5200	64200	63580	104200	103400	1.40	17.5	
2	0.375	3/8	0.375	0.11	0.110	3200	5200	64200	63910	104200	103900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Lt Commander PN
 GE (Navy) Lahore
 (CA No. CEN-169/2020 - Construction of Underground Water Tank (300,000 Gallons Capacity) at SRE Land Lahore)
 Reference # CED/TFL **35867** (Dr. Waseem Abbass) Dated: 04-01-2021
 Reference of the request letter # 6021/153/35/E-6 Dated: 18-12-2020

Tension Test Report (Page -1/1)

Date of Test 05-01-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (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	0.372	3/8	0.373	0.11	0.109	2700	4100	54100	54470	82200	82800	1.60	20.0	
2	0.370	3/8	0.372	0.11	0.109	2600	4000	52100	52650	80200	81000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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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Pakistan. Ph: 92-42-99029202

To,
M/S Multan Construction Services (Pvt) Ltd
Multan

Reference # CED/TFL **35868** (Dr. Waseem Abbass)
Reference of the request letter # MCS/UET/TST

Dated: 04-01-2021
Dated: 04-01-2021

Tension Test Report (Page -1/1)

Date of Test 05-01-2021
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	0.376	3	0.375	0.11	0.111	3500	4900	70200	69750	98200	97700	0.90	11.3	
2	0.380	3	0.377	0.11	0.112	3400	4800	68200	67150	96200	94800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M Kashif
Lahore

Reference # CED/TFL **35869** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 04-01-2021
Dated: 04-01-2021

Tension Test Report (Page -1/1)

Date of Test 05-01-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.373	3	0.374	0.11	0.110	4200	5300	84200	84370	106200	106500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
Director Operations
Buraq Integrated Solutions
Rawalpindi
(Meteorological Tower)

Reference # CED/TFL **35870** (Dr. Waseem Abbass)
Reference of the request letter # BIS/2021-993b

Dated: 04-01-2021
Dated: 04-01-2021

Tension Test Report (Page – 1/1)

Date of Test 05-01-2021
Description Stay Wire Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/km)	(kg)	
1	8	305	3200	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK

Establishment of U.E.T Lahore Sub Campus at Narowal – Construction of Central Plant Room for HVAC

Reference # CED/TFL 35871 (Dr. Waseem Abbass)

Dated: 04-01-2021

Reference of the request letter # 3863/13/SYA/Labtesting/224

Dated: 30-12-2020

Tension Test Report (Page -1/1)

Date of Test 05-01-2021

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	0.382	3	0.378	0.11	0.112	4000	5100	80200	78460	102200	100100	0.70	8.8	KSR Steel
2	0.382	3	0.378	0.11	0.112	4100	5200	82200	80490	104200	102100	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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