



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/10/37095
2021

Dated: 23-09-

Dated of Test: 05-10-2021

To
Assistant Project Director
PMU-SBP (Faisalabad)
Tehsil Sports Complex Ahmadpur Sial District Jhang

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

Reference to your letter No. APD/PMU/SBP/TEST/84, dated 13.08.2021 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	7.81	7.31	0.92	0.73	1.15	5300	8200	2187	3384

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
 M/S Wadduha Engineering
 Lahore
 (Construction of East Bay Expressway Gawadar)(CCCC)
 (Manufacturer: M Khalid & Sons)
 Reference # CED/TFL **37131** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 30-09-2021
 Dated: 30-09-2021

Tension Test Report (Page – 1/2)

Date of Test 05-10-2021
 Gauge length 8 inches
 Description G.I Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual							
1	0.056	-----	3.02	-----	7.2	-----	320	-----	438	1.10	13.8	
2	0.055	-----	2.99	-----	7.0	-----	320	-----	446	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

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(Manufacturer: M Khalid & Sons)
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Reference of the request letter # Nil

Dated: 30-09-2021
Dated: 30-09-2021

Size Test Report (Page – 2/2)

Date of Test 05-10-2021
Description G.I Wire Thickness Test

Sr. No.	Designation	Measured Diameter	Remark
1	G.I Wire	3.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

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STRUCTURAL ENGINEERING DIVISION
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To,
 Assistant Resident Engineer
 Engineering Consultancy Services Punjab (Pvt) Ltd
 Supply, Construction, Installation of Water Filtration Plants in Multan

Reference # CED/TFL **37145** (Dr. Waseem Abbass)
 Reference of the request letter # ECSP/PAPA/SZ-MUL-27

Dated: 04-10-2021
 Dated: 30-09-2021

Tension Test Report (Page -1/1)

Date of Test 05-10-2021
 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	0.378	3	0.376	0.11	0.111	3800	4900	76200	75480	98200	97400	1.00	12.5	
2	0.374	3	0.374	0.11	0.110	3900	4900	78200	78160	98200	98200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP PH3 Project) ((Naveena Steel) ASE)

Reference # CED/TFL **37146** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 05-10-2021
Dated: 30-09-2021

Tension Test Report (Page -1/3)

Date of Test 05-10-2021
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	0.406	10	9.90	0.12	0.119	4300	5500	78998	79390	101044	101600	1.00	12.5	
2	0.412	10	9.97	0.12	0.121	4500	5900	82673	81970	108393	107500	1.00	12.5	
3	0.414	10	10.00	0.12	0.122	4300	5500	78998	77920	101044	99700	0.90	11.3	
4	0.415	10	10.01	0.12	0.122	4400	5600	80835	79540	102881	101300	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Amreli Steel) kraftcon)

Reference # CED/TFL **37146** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 05-10-2021
Dated: 30-09-2021

Tension Test Report (Page -2/3)

Date of Test 05-10-2021
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	0.422	10	10.09	0.12	0.124	3700	4700	67975	65820	86347	83700	1.20	15.0	
2	0.419	10	10.05	0.12	0.123	3800	4700	69812	68060	86347	84200	1.30	16.3	
3	0.420	10	10.07	0.12	0.123	3700	4600	67975	66090	84510	82200	1.40	17.5	
4	0.421	10	10.08	0.12	0.124	3800	4800	69812	67740	88184	85600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
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To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Naveena Steel) kraftcon)

Reference # CED/TFL **37146** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 05-10-2021
Dated: 30-09-2021

Tension Test Report (Page -3/3)

Date of Test 05-10-2021
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	0.429	10	10.18	0.12	0.126	4900	6000	90021	85610	110230	104900	0.90	11.3	
2	0.429	10	10.17	0.12	0.126	4900	6000	90021	85710	110230	105000	1.00	12.5	
3	0.432	10	10.22	0.12	0.127	4700	6000	86347	81520	110230	104100	1.20	15.0	
4	0.431	10	10.20	0.12	0.127	4900	6100	90021	85350	112067	106300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
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