

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

Ref: <u>CED/TFL/03/4831</u> Dated: <u>20-03-2024</u>

Dated of Test: <u>26-03-2024</u>

To

Resident Engineer Engineering Consultancy Services Punjab (Pvt) Limited. Resident Supervision for Revamping of Lahore Zoo.

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

Reference to your letter No. ECSP/RE/ZOO/14, dated 02.01.2024 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		External Diameter	Internal Diameter	Wall Thickness	Proofload	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.77	7.31	15.83	11.89	1.97	7000	13500	2132	4111

I/C Testing Laboratoires UET Lahore, Pakistan.

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
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Ref: <u>CED/TFL/03/4832</u> Dated: <u>20-03-2024</u>

Dated of Test: 26-03-2024

To

Asstt: Executive Engineer-I Central Civil Division No. II Pak P.W.D., Lahore (Construction of PCC, Tuff Tile, Sewerage, Nallah in UC-248 Shahzada, District Lahore.)

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

Reference to your letter No. AEE-I/LCCD-II/SAP/121-A, dated 10.04.2023 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.79	7.30	15.94	11.92	2.01	10000	15500	3041	4713

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Project Director SIE Punjab Industrial Estates Framework Contract for Construction for Boundary Wall at Sundar Industrial Estate.

Reference # CED/TFL 4841 (Dr. Usman Akmal)

Reference of the request letter # PIE/SIE/BWL/0619

Dated: 25-03-2024

Dated: 21-03-2024

Tension Test Report (Page -1/1)

Date of Test 26-03-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.372	3	0.373	0.11	0.109	3330	4810	66800	67090	96400	96900	1.40	17.5	za el
2	0.373	3	0.374	0.11	0.110	3330	4860	66800	66890	97400	97700	1.30	16.3	Hunza Steel
-	-	1	-	-	-	1	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	ı	ı	
#3	Bend Test #3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Project Incharge Ijaz Cotton Pvt Ltd. At 34 km Nabi Baksh Derozpur Road Lahore.

Reference # CED/TFL <u>4842 (Dr. Usman Akmal)</u> Dated: 25-03-2024 Reference of the request letter # MST./Ground Floor Lantor + Beams and First floor Coulmn's

Dated: 21-03-2024

Tension Test Report (Page -1/1)

Date of Test 26-03-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.360	3	0.367	0.11	0.106	3230	4710	64800	67210	94400	98100	1.50	18.8	
2	0.361	3	0.368	0.11	0.106	3210	4690	64400	66620	94000	97400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	1	-	-	-	-	-	-	-	-	-	1	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend	test			
	Bend Test													
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Manager Operations
ZS Associates / ZAS Construction Services
"Tauheed Heights for UGWT, Domestic Tank, Sumpits, Raft, Retaining Wallsand Columns of Basement, Bahria Town Lahore via ZS Associates."

Reference # CED/TFL 4846 (Dr. Usman Akmal)

Reference of the request letter # ZSA/TH/UET/S/001

Dated: 25-03-2024

Dated: 25-03-2024

Tension Test Report (Page -1/1)

Date of Test 26-03-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Diameter/ Area (in²)			Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks		
S	(lbs/ft)	Nominal (#) Actual (inch)		Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.379	3	0.377	0.11	0.111		4760			95400	94200	0.50	6.3	
2	0.377	3	0.375	0.11	0.111	4660	5220	93400	92750	104600	103900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
	Bend Test													
#3	Bar Ben	d Test	I'hrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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To,

M/S Beacon Impex Private Limited.
Construction of Fabric Storage Godowns & Dye House Extension at Beacon Impex.
Beacon Impex, 35 – km Sheikhupura Road, Faisalabad
(M/s M. Saleem Construction Company.)

Reference # CED/TFL 4848 (Dr. Usman Akmal)

Reference of the request letter # B.I/I/CIVIL/24-112

Dated: 25-03-2024

Dated: 25-03-2024

Tension Test Report (Page -1/1)

Date of Test 26-03-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size			rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.391	3	0.382	0.11	0.115	3380	4740	67800	64890	95000	91000	1.50	18.8	Steel
2	0.391	3	0.383	0.11	0.115	3410	4710	68400	65390	94400	90400	1.40	17.5	SJ S
-	ı	-	-	1	-	ı	-	-	-	-	-	-	-	
-	ı	-	-	1	-	ı	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
#3	Bend Test #3 Bar Bend Test Through 180° is Satisfactory													
113	#3 Bar Bend Test Through 180 is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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- 2. The above results pertain to sample /samples supplied to this laboratory.
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Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Assistant Project Manager Damaan Group Construction of Damaan City Houses Ali Construction and Engineering Company Strength Test.

Reference # CED/TFL 4850 (Dr. Usman Akmal) Dated: 25-03-2024

Reference of the request letter # 0004/DAMAAN CITY/24 Dated: 25-03-2024

Tension Test Report (Page -1/1)

Date of Test 26-03-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in²)		Yield load Breaking Load		Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	(lbs/ft) Nominal Actual		Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.376	3/8	0.375	0.11	0.111	4030	4940	80800	80270	99000	98400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	1	-	-	-	-	ı	
1	1	1	-	-	-	•	-	-	-	-	-	-	ı	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	I		
							Bend T	est						
3/8	3/8" Dia Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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To,

M/s Prime Steel Re-Rolling Mills Sheikhupura

Reference # CED/TFL **4851** (Dr. Usman Akmal) Dated: 26-03-2024 Reference of the request letter # Nil Dated: 26-05-2023

Tension Test Report (Page -1/1)

Date of Test 26-03-2024 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	T %	Re
1	0.409	3	0.391	0.11	0.120	3430	5350	68800	62900	107200	98200	1.20	15.0	ne el
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Prime Steel
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
		ı	N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est			
	Bend Test													
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires **UET Lahore, Pakistan.**

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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- Sealed sample / Unsealed sample / Marked sample/Signed Samples