



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

To,
 Manager Special Task
 Country Developers (Pvt) Ltd
 PGC Okara

Reference # CED/TFL **1561** (Dr. M Rizwa Riaz)
 Reference of the request letter # CDPL/22/Okara/02

Dated: 17-06-2022
 Dated: 19-05-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022
 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	0.369	3	0.372	0.11	0.109	4200	5150	84200	85320	103200	104700	0.90	11.3	Afco Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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To,
 Material Engineer
 Engineering Consultancy Services Punjab (Pvt)Limited
 Reconstruction of Pipal House A-Block Lahore

Reference # CED/TFL **1562** (Dr. M Rizwa Riaz)
 Reference of the request letter # 343/ECSP/PH/ME/20

Dated: 17-06-2022
 Dated: 13-06-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022
 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	3310	4840	66400	64340	97000	94100	1.20	15.0	SJ Steel
2	0.388	3	0.381	0.11	0.114	3280	4940	65800	63350	99000	95500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Ref: CED/TFL/06/1565

Dated: 17-06-2022

Dated of Test: 21-06-2022

To

Deputy Director
Anti-Corruption Establishment,
Sargodha Region, Sargodha
“Provision of Sewerage, Drainage, Tuff Tile and PCC in Wan Bhachran Town,
District Mainwali”

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -1/4)

Reference to your letter No. ACE-SR-2022/4363, dated 16.06.2022 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	7.80	7.35	15.91	11.63	2.14	21440	27270	6638	8443

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

Ref: CED/TFL/06/1565

Dated: 17-06-2022

Dated of Test: 21-06-2022

To

Deputy Director
Anti-Corruption Establishment,
Sargodha Region, Sargodha
“Provision of Integrated Sewerage Scheme for Wan Bhachran Town, District
Mainwali”

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/4)**

Reference to your letter No. ACE-SR-2022/4360, dated 16.06.2022 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
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	15	7.83	7.28	19.88	15.32	2.28	10770	18530	2553	4393
2	18	7.73	7.33	23.03	18.07	2.48	8830	14073	1764	2812

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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/06/1565

Dated: 17-06-2022

Dated of Test: 21-06-2022

To

Deputy Director
Anti-Corruption Establishment,
Sargodha Region, Sargodha
“Construction of PCC Slab / Sewerage / Drainage, Wandhi Islamabad Pacca
Ghanjera Wan Bhachran District Mainwali”

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -3/4)**

Reference to your letter No. ACE-SR-2022/4362, dated 16.06.2022 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
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.73	7.31	22.95	17.65	2.65	7860	12710	1612	2606
2	21	7.72	7.26	26.77	21.57	2.60	7860	13680	1328	2311

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Ref: CED/TFL/06/1565

Dated: 17-06-2022

Dated of Test: 21-06-2022

To

Deputy Director
Anti-Corruption Establishment,
Sargodha Region, Sargodha
“Construction of PCC Slab / drains / Sewerage Pakka Ghanjera District
Mianwali”

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -4/4)**

Reference to your letter No. ACE-SR-2022/4358, dated 16.06.2022 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
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.78	7.36	16.14	12.19	1.97	21440	23390	6318	6892
2	18	7.74	7.30	23.15	18.85	2.15	7860	13680	1511	2629

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
Sub Divisional Officer
Building Sub Division
Pattoki
(Construction of P.H.P Post Ladu Manj Tehsil Pattoki District Kasur

Reference # CED/TFL **1567** (Dr. M Rizwa Riaz)
Reference of the request letter # 886/P

Dated: 20-06-2022
Dated: 27-05-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022
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	0.411	3	0.392	0.11	0.121	3470	5120	69600	63380	102600	93600	1.10	13.8	
2	0.417	3	0.395	0.11	0.123	3620	5270	72600	65120	105600	94800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,
 Resident Engineer
 NESPAK

Infrastructure Development of Quaid-e-Azam Business Park on Motorway M-2, District Sheikhupura

Reference # CED/TFL **1571** (Dr. M Rizwa Riaz)

Dated: 20-06-2022

Reference of the request letter # 4163/11/MY/02/272

Dated: 20-06-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022

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	0.097	3/16	0.191	-----	0.029	820	1020	-----	63320	-----	78800	1.20	15.0	
2	0.100	3/16	0.194	-----	0.029	760	990	-----	56790	-----	74000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/16" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer
 Allied Engineering Consultants (Pvt)Ltd
 Establishment of Mother & Child Block in Sir Ganga Ram Hospital Lahore (Group No. 1)

Reference # CED/TFL **1573** (Dr. M Rizwa Riaz)
 Reference of the request letter # AEC/MBC/2022/200

Dated: 20-06-2022
 Dated: 02-06-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022
 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	0.403	3	0.389	0.11	0.119	4030	4960	80800	74930	99400	92300	1.20	15.0	
2	0.409	3	0.391	0.11	0.120	4250	5120	85200	77930	102600	93900	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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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 Orbit Developers
 The Spring, Gulberg Lahore

Reference # CED/TFL **1575** (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 20-06-2022
 Dated: 17-06-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022
 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	0.375	3	0.374	0.11	0.110	3490	4760	70000	69870	95400	95300	1.40	17.5	
2	0.397	3	0.385	0.11	0.117	4100	5250	82200	77520	105200	99300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Engineer's Representative
 Infrastructure Development Authority of The Punjab
 Construction of Training Laboratory at Punjab Forensic Science Agency (PESA), Lahore

Reference # CED/TFL 1581 (Dr. Asad Ali) Dated: 21-06-2022
 Reference of the request letter # TE(PFSA)IDAP/SO/2022/14531 Dated: 17-06-2022

Tension Test Report (Page -1/1)

Date of Test 21-06-2022
 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	0.368	3	0.371	0.11	0.108	3770	4860	75600	76760	97400	99000	1.10	13.8	FF Steel
2	0.363	3	0.369	0.11	0.107	3620	4610	72600	74720	92400	95200	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														

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UET Lahore, Pakistan.

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