



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/10/4054
2023

Dated: 12-10-

Dated of Test: 17-10-2023

To

Project Manager
Techno-Consult International (Pvt) Ltd
PRSWSS Project - North
Construction of Water Supply and Sewerage System in Kot Monin KMN-02

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHASE-II/011,
dated 20.09.2023 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	7.81	7.28	16.06	12.11	1.98	8000	10500	2399	3149
2	12	7.81	7.25	16.02	12.13	1.95	5500	7500	1655	2257

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 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: CED/TFL/10/4066

Dated: 16-10-2023

Dated of Test: 17-10-2023

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore

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

Reference to your letter No. Nil, dated 02.10.2023 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	9	7.77	7.29	12.60	9.36	1.62	10000	14500	3875	5619
2	9	7.78	7.31	12.52	8.90	1.81	12000	17000	4880	6914

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Resident Engineer
 NESPAK
 Re-Modelling and Upgradation of Ada Nullalh and Walton Road (Package-II)
 (Construction of Flyover at Ghora Chowk)

Reference # CED/TFL **4068** (Dr. Usman Akmal)
 Reference of the request letter # 4322/13/CAA/09/54

Dated: 17-10-2023
 Dated: 02-10-2023

Tension Test Report (Page -1/1)

Date of Test 17-10-2023
 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	5.244	11	1.401	1.56	1.541	48200	71800	68100	68920	101500	102700	1.50	18.8	Kamran Steel
2	5.259	11	1.403	1.56	1.546	48800	71800	69000	69590	101500	102400	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S Aziz Industries
Sheikhupura
(Aziz Steel Grade - 60)

Reference # CED/TFL **4070** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 16-10-2023
Dated: 16-10-2023

Tension Test Report (Page -1/1)

Date of Test 17-10-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	3400	5300	68200	69220	106200	107900	1.00	12.5	1
2	0.375	3	0.375	0.11	0.110	3400	5400	68200	68010	108200	108100	1.20	15.0	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Surge Laboratories Pvt. Ltd.

Reference # CED/TFL **4072** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 16-10-2023
Dated: 16-10-2023

Tension Test Report (Page -1/1)

Date of Test 17-10-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.414	3	0.394	0.11	0.122	4500	5400	90200	81550	108200	97900	0.90	11.3	
2	0.416	3	0.394	0.11	0.122	4600	5500	92200	82960	110200	99200	0.90	11.3	
3	0.412	3	0.393	0.11	0.121	4500	5300	90200	81850	106200	96500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
ACE CSM
Secretariat Office Building & Allied Work in Multan

Reference # CED/TFL **4074** (Dr. Usman Akmal)
Reference of the request letter # ACE/RE/CSM/955

Dated: 17-10-2023
Dated: 13-10-2023

Tension Test Report (Page -1/1)

Date of Test 17-10-2023
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	3400	4600	68200	67750	92200	91700	1.50	18.8	FF Steel
2	0.375	3	0.375	0.11	0.110	3400	4600	68200	67960	92200	92000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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