



**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/12/2522

Dated: 27-12-2022

Dated of Test: 05-01-2023

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 04.11.2022 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	9	7.76	7.28	12.32	9.06	1.63	7000	8500	2807	3409
2	9	7.77	7.28	12.60	9.43	1.59	6500	7900	2504	3044

**I/C Testing Laboratoires**  
**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](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.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



**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/12/2529, 574

Dated: 28-12-2022

Dated of Test: 05-01-2023

To

**Asst Dir Dev**  
**Defence Housing Authority**  
**Gujranwala**  
**Sector C**

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

Reference to your letter No. 111/15/AD/RS/Pkg-2A/962, dated 27.12.2022 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	15	7.74	7.30	19.53	14.60	2.46	11000	17000	2730	4218

Witness by Qamar Ibrahim (AME DAH)

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

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/12/2539

Dated: 29-12-2022

Dated of Test: 05-01-2023

To

**Resident Engineer**  
**NESPAK**

**Development of Infrastructure Works in Newly Cleared Area of LDA Avenue-I, Lahore (Package-2)**

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

Reference to your letter No. 2599/13/RK/05/P-2/11, dated 26.12.2022 on the subject cited above. One R.C.C. Pipes 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	9	7.74	7.25	11.02	8.83	1.10	4500	6200	1860	2563

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

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- 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](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,

M/S Wanians Construction Company  
 Wana  
 (UNDP = ITB = 2022 = 122 =CON = Package 03, Construction of of Tsunami  
 Excavation Shelters at District Gawadar, Baluchistan.)

Reference # CED/TFL **2562** (Dr. Usman Akmal)

Dated: 03-01-2023

Reference of the request letter # WCS/2022=UNDP=122/3

Dated: 21-12-2022

**Tension Test Report** (Page -1/2)

Date of Test 05-01-2023

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 <sup>2</sup> )		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	0.397	10	9.80	0.12	0.117	4500	5500	82673	84890	101044	103800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia 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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,

M/S Wanians Construction Company  
Wana  
(UNDP = ITB = 2022 = 122 = CON = Package 03, Construction of of Tsunami  
Excavation Shelters at District Gawadar, Baluchistan.)

Reference # CED/TFL **2562** (Dr. Usman Akmal)  
Reference of the request letter # WCS/2022=UNDP=122/3

Dated: 03-01-2023  
Dated: 21-12-2022

**Tension Test Report** (Page – 2/2)

Date of Test 05-01-2023  
Gauge length 2 inches  
Description GI Sheet 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)									
1	GI Sheet	0.6	38.60x0.50	19.30	-----	1000	-----	508	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>											
<b>Bend Test</b>											

**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,

Resident Engineer  
 NESPAK  
 Dualization of Rawalpindi – Kahuta Road including 4-Lane Bridge over Sihala Railway  
 Pass, Sihala By-Pass & Kahuta By-Pass Package-2, km 16+500 to 28+352.

Reference # CED/TFL **2566** (Dr. Usman Akmal)

Dated: 04-01-2023

Reference of the request letter # NESPAK/103/MW/64

Dated: 03-01-2023

**Tension Test Report** (Page -1/1)

Date of Test 05-01-2023

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 <sup>2</sup> )		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	0.408	10	9.93	0.12	0.120	3900	5900	71650	71660	108393	108400	1.40	17.5	
2	0.406	10	9.90	0.12	0.119	3800	5500	69812	70240	101044	101700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

Note:

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



**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  
Flyover at Saroki adda on G.T. Road(Samma) Gujrat Dinga Road – 13km in District  
Gujrat.

Reference # CED/TFL **2568** (Dr. Usman Akmal)  
Reference of the request letter # 4364/03/CRM/01/22/33

Dated: 04-01-2023  
Dated: 26-12-2022

**Tension Test Report** (Page -1/1)

Date of Test 05-01-2023  
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 <sup>2</sup> )		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	0.110	3500	4900	70200	69870	98200	97900	1.50	18.8	Sheikho Steel	
2	0.378	3	0.376	0.11	0.111	3500	5000	70200	69450	100200	99300	1.70	21.3		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Note: only two samples for tensile and one sample for bend test</b>															
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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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,

Asst Dir (Lab)  
 Defence Housing Authority  
 Bahawalpur  
 (The Project of The Sector-B Mosque)(M/s Multiline Engineering)

Reference # CED/TFL **2569** (Dr. Asad Ali)  
 Reference of the request letter # 110/QC/MTL

Dated: 04-01-2023  
 Dated: 30-12-2022

**Tension Test Report** (Page -1/1)

Date of Test 05-01-2023  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		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	0.357	3	0.365	0.11	0.105	3570	4690	71600	75000	94000	98600	1.20	15.0	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**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,  
 Project Manager  
 Union Developers  
 Construction of Union Luxury Apartments, Etihad Town, Lahore

Reference # CED/TFL **2571** (Dr. Usman Akmal)  
 Reference of the request letter # UA/SO/2022/035-R-1

Dated: 05-01-2023  
 Dated: 03-01-2023

**Tension Test Report** (Page -1/1)

Date of Test 05-01-2023  
 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 <sup>2</sup> )		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	0.108	3100	5100	62200	63000	102200	103700	1.30	16.3	Afco Steel
2	0.364	3	0.369	0.11	0.107	3100	5100	62200	63820	102200	105000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Imran (Lab. Incharge Afco Steel)

**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**  
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To,

M/S Alfa Tech  
 Dera Ghazi Khan  
 APS (Girls) Sarfaraz Rafiqui Road, Lahore

Reference # CED/TFL 2572 (Dr. Usman Akmal)  
 Reference of the request letter # Nil

Dated: 05-01-2023

Dated: 05-01-2023

**Tension Test Report** (Page -1/1)

Date of Test 05-01-2023  
 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 <sup>2</sup> )		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	0.381	3/8	0.378	0.11	0.112	3700	4900	74200	72860	98200	96500	1.30	16.3	
2	0.385	3/8	0.380	0.11	0.113	4300	5300	86200	83700	106200	103200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**Note: only two samples for tensile and one sample for bend test**

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Bend Test

3/8" Dia Bar Bend Test Through 180° is Satisfactory

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

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