



**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/03/6676

Dated: 10-03-2025

Dated of Test: 21-03-2025

To

**Assistant Resident Engineer**  
**(AZE A Mailsi)**  
**AZ Engineering Associates.**  
**Revamping of Basic Health Units in Punjab One at District Vehari, Tehsil**  
**Mailsi.**

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

Reference to your letter no: RE/AZE/Mailsi/30 on dated 10.03.2025 on the subject cited above. Two R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

| Sr.<br>No | Nominal<br>Size | Total<br>Length | Loaded<br>Length | External<br>Diameter | Internal<br>Diameter | Wall<br>Thickness | Proof load | Ultimate<br>Load | Proof<br>Stress         | Ultimate<br>Stress      |
|-----------|-----------------|-----------------|------------------|----------------------|----------------------|-------------------|------------|------------------|-------------------------|-------------------------|
|           | (inch)          | (foot)          | (foot)           | (inch)               | (inch)               | (inch)            | (kg)       | (kg)             | Lbs/Linear<br>foot/foot | Lbs/Linear<br>foot/foot |
| 1         | 9               | 7.78            | 7.34             | 11.10                | 8.90                 | 1.10              | 7500       | 11500            | 3037                    | 4656                    |
| 2         | 9               | 7.78            | 7.34             | 11.00                | 8.80                 | 1.10              | 8000       | 11300            | 3276                    | 4627                    |

Test Performed and Verified by:

**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/03/6699

Dated: 12-03-2025

Dated of Test: 21-03-2025

To

**Assistant Resident Engineer (AZEAMailsi)**  
**AZ Engineering Associates**  
**Revamping of Basic Health Units in Punjab One at District Vehari, Tehsil**  
**Mailsi**

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

Reference to your letter No. RE/AZEA/Mailsi/27, dated 10.03.2025 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)          | Lbs/Linear foot/foot | Lbs/Linear foot/foot |
| 1      | 9            | 7.78         | 7.35          | 11.10             | 8.84              | 1.13           | 8000       | 11700         | 3257                 | 4764                 |

Test Performed and Verified by:

**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/03/6701  
2025

Dated: 13-03-

Dated of Test: 21-03-2025

To

**Engr. Sheikh Maqbool Hassan**  
**Resident Engineer, Nespak**  
**MCL Nishtar Zone, Lahore.**  
**(Rehabilitation/Improvement of Streets (P.C.C), Sewerage/Drainage UC-242**  
**Nishtar Zone MCL)**

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

Reference to your letter No. 4084/103/LDP/NZ/225, dated 22.02.2025 on the subject cited above. Two R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

| Sr.<br>No | Nominal<br>Size | Total<br>Length | Loaded<br>Length | External<br>Diameter | Internal<br>Diameter | Wall<br>Thickness | Proof load | Ultimate<br>Load | Proof<br>Stress         | Ultimate<br>Stress      |
|-----------|-----------------|-----------------|------------------|----------------------|----------------------|-------------------|------------|------------------|-------------------------|-------------------------|
|           | (inch)          | (foot)          | (foot)           | (inch)               | (inch)               | (inch)            | (kg)       | (kg)             | Lbs/Linear<br>foot/foot | Lbs/Linear<br>foot/foot |
| 1         | 12              | 7.78            | 7.30             | 15.80                | 11.80                | 2.00              | 11000      | 15500            | 3378                    | 4760                    |
| 2         | 18              | 7.79            | 7.39             | 23.10                | 18.50                | 2.30              | 7500       | 11000            | 1451                    | 2128                    |

Test Performed and Verified by:

**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/03/6699  
2025

Dated: 12-03-

Dated of Test: 21-03-2025

To

**Assistant Resident Engineer**

**(AZE A Mailsi)**

**AZ Engineering Associates.**

**Revamping of Basic Health Units in Punjab One at District Vehari, Tehsil Mailsi.**

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

Reference to your letter no: RE/AZE A/Mailsi/27 on dated 10.03.2025 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)          | Lbs/Linear foot/foot | Lbs/Linear foot/foot |
| 1      | 9            | 7.78         | 7.35          | 11.10             | 8.84              | 1.13           | 8000       | 11700         | 3257                 | 4764                 |

Test Performed and Verified by:

**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/03/6723

Dated: 18-03-2025

Dated of Test: 21-03-2025

To

**Engr.Sajjad Hashmi**  
**GM QA/QC**  
**Vision Developers Pvt. Ltd.**  
**Park View City Lahore.**

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

Reference to your letter on dated 13.03.2025 on the subject cited above.

Two R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

| Sr.<br>No | Nominal<br>Size | Total<br>Length | Loaded<br>Length | External<br>Diameter | Internal<br>Diameter | Wall<br>Thickness | Proofload | Ultimate<br>Load | Proof<br>Stress         | Ultimate<br>Stress      |
|-----------|-----------------|-----------------|------------------|----------------------|----------------------|-------------------|-----------|------------------|-------------------------|-------------------------|
|           | (inch)          | (foot)          | (foot)           | (inch)               | (inch)               | (inch)            | (kg)      | (kg)             | Lbs/Linear<br>foot/foot | Lbs/Linear<br>foot/foot |
| 1         | 9               | 7.73            | 7.28             | 12.30                | 9.38                 | 1.46              | 12000     | 14500            | 4647                    | 5615                    |
| 2         | 9               | 7.78            | 7.28             | 12.50                | 9.38                 | 1.56              | 11500     | 14000            | 4458                    | 5428                    |

Test Performed and Verified by:

**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**

To,

Resident Engineer  
Metroplan-Asian (JV), Site Office,  
NSICTR, Package-B&C, Lahore  
Establishment of Nawaz Sharif Institute of Cancer Treatment & Research, Lahore Phase-1 (Package-B).

Reference # CED/TFL **6741** (Dr. M. Kashif)

Dated: 20-03-2025

Reference of the request letter # Metroplan-Asian(JV)/NSICTR/RE-B&C/B193 Dated: 20-03-2025

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

Date of Test 21-03-2025

Gauge length 8 inches

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

| Sr. No.                                                                       | Weight   | Diameter/<br>Size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load | Breaking<br>Load | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation | % Elongation | Remarks                     |
|-------------------------------------------------------------------------------|----------|-------------------|------------------|----------------------------|--------|------------|------------------|-----------------------|--------|--------------------------|--------|------------|--------------|-----------------------------|
|                                                                               | (lbs/ft) | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual | (kN)       | (kN)             | Nominal               | Actual | Nominal                  | Actual | (inch)     |              |                             |
| 1                                                                             | 0.372    | 3                 | 0.373            | 0.11                       | 0.109  | 33.20      | 44.70            | 67900                 | 68280  | 91300                    | 92000  | 1.20       | 15.0         | Kamran Steel<br>(Heat # 41) |
| 2                                                                             | 0.373    | 3                 | 0.374            | 0.11                       | 0.110  | 35.50      | 46.70            | 72600                 | 72690  | 95400                    | 95700  | 1.20       | 15.0         |                             |
| 3                                                                             | 0.367    | 3                 | 0.371            | 0.11                       | 0.108  | 32.70      | 44.20            | 66800                 | 68090  | 90300                    | 92100  | 1.10       | 13.8         |                             |
| 4                                                                             | 0.368    | 3                 | 0.371            | 0.11                       | 0.108  | 33.00      | 45.50            | 67500                 | 68460  | 93000                    | 94400  | 1.10       | 13.8         |                             |
| 5                                                                             | 0.367    | 3                 | 0.371            | 0.11                       | 0.108  | 32.50      | 45.20            | 66400                 | 67620  | 92400                    | 94100  | 1.00       | 12.5         |                             |
| 6                                                                             | 0.371    | 3                 | 0.373            | 0.11                       | 0.109  | 33.70      | 45.50            | 68900                 | 69360  | 93000                    | 93700  | 1.00       | 12.5         |                             |
| Note: Only Six Samples for Tensile and Three for Bend test.                   |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |                             |
| Bend Test                                                                     |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |                             |
| #3 Bar Bend Test Through 180° is Satisfactory. (Kamran Steel) (Heat # MAR 41) |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |                             |
| #3 Bar Bend Test Through 180° is Satisfactory. (Kamran Steel) (Heat # MAR 41) |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |                             |
| #3 Bar Bend Test Through 180° is Satisfactory. (Kamran Steel) (Heat # MAR 41) |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |                             |

Test Performed and Verified by:

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](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**

To,

Sufi Muhammad Haroon Haris  
The Construction of Fauzia and Haris Residence at  
Green Fort-1 Raiwind Road, Lahore

Reference # CED/TFL **6745** (Dr. Asad Gillani)  
Reference of the request letter # Nil

Dated: 21-03-2025  
Dated: 21-02-2025

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

Date of Test 21-03-2025  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile Test as per ASTM-A615

| Sr. No.                                                                     | Weight   | Diameter/<br>Size |                | Area<br>(in <sup>2</sup> ) |        | Yield load | Breaking<br>Load | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation | % Elongation | Remarks        |
|-----------------------------------------------------------------------------|----------|-------------------|----------------|----------------------------|--------|------------|------------------|-----------------------|--------|--------------------------|--------|------------|--------------|----------------|
|                                                                             | (lbs/ft) | Nominal<br>(#)    | Actual<br>(in) | Nominal                    | Actual | (kg)       | (kg)             | Nominal               | Actual | Nominal                  | Actual | (inch)     |              |                |
| 1                                                                           | 0.373    | 3                 | 0.374          | 0.11                       | 0.110  | 3340       | 4500             | 67000                 | 67070  | 90200                    | 90400  | 1.50       | 18.8         | Sheikhoo Steel |
| 2                                                                           | 0.375    | 3                 | 0.375          | 0.11                       | 0.110  | 3360       | 4440             | 67400                 | 67230  | 89000                    | 88900  | 1.50       | 18.8         |                |
| -                                                                           | -        | -                 | -              | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |                |
| -                                                                           | -        | -                 | -              | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |                |
| -                                                                           | -        | -                 | -              | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |                |
| <b>Note: only two samples for tensile test and one sample for bend test</b> |          |                   |                |                            |        |            |                  |                       |        |                          |        |            |              |                |
| Bend Test                                                                   |          |                   |                |                            |        |            |                  |                       |        |                          |        |            |              |                |
| #3 Bar Bend Test Through 180° is Satisfactory (Sheikhoo Steel)              |          |                   |                |                            |        |            |                  |                       |        |                          |        |            |              |                |
|                                                                             |          |                   |                |                            |        |            |                  |                       |        |                          |        |            |              |                |
|                                                                             |          |                   |                |                            |        |            |                  |                       |        |                          |        |            |              |                |

I/C Testing Laboratoires  
UET Lahore, Pakistan.

Note:

- 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)
- The above results pertain to sample /samples supplied to this laboratory.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples