**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/01/4501 Dated: 15-01-2024

Dated of Test: 17-01-2024

**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 15.01.2024 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 | 7.78 | 7.31 | 12.36 | 8.88 | 1.74 | 11500 | 14000 | 4684 | 5702 |
| 2 | 9 | 7.80 | 7.31 | 12.44 | 8.96 | 1.74 | 15000 | 19000 | 6056 | 7671 |

**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
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
NESPAK
Development of Internal Infrastrastructure of CBD Walton (Phase 2 &3) & Flyover Connecting Bab-e-Pakistan to Walton.

Reference # CED/TFL **4502** (Dr. Ali Ahmed) Dated: 16-01-2024
Reference of the request letter # 4322/13/DAK/02/93 Dated: 28-12-2023

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

Date of Test 17-01-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size | | Area ($in^2$) | | 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 | 0.376 | 3 | 0.375 | 0.11 | 0.111 | 3600 | 5500 | 72200 | 71740 | 110200 | 109700 | 1.00 | 12.5 | Premium Batala |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| **Note: only one sample for tensile and one sample for bend test** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
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**I/C Testing Laboratoires**
**UET Lahore, Pakistan.**

Note:
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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,

CEO (TPMC)
The Praperty Maintenance Company
Project:- Descon Head Quarter Lahore.

Reference # CED/TFL **4504** (Dr. Ali Ahmed) Dated: 16-01-2024
Reference of the request letter # Nil Dated: 11-01-2024

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

Date of Test 17-01-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size | | Area ($in^2$) | | 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 | 0.388 | 3 | 0.381 | 0.11 | 0.114 | -------- | 6100 | -------- | -------- | 122300 | 117900 | 0.40 | 5.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| **Note: only one sample for tensile and one sample for bend test** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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**I/C Testing Laboratoires**
**UET Lahore, Pakistan.**

Note:
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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,
Kashif

Reference # CED/TFL **4505** (Dr. Ali Ahmed) Dated: 16-01-2024
Reference of the request letter # Nil Dated: 16-01-2024

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

Date of Test 17-01-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size (inch) | | Area ($in^2$) | | Yield load | Breaking Load | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation | % Elongation | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lbs/ft) | Nominal | Actual | Nominal | Actual | (kg) | (kg) | Nominal | Actual | Nominal | Actual | (inch) | | |
| 1 | 0.406 | 3 | 0.390 | 0.11 | 0.119 | 4000 | 6200 | 80200 | 73790 | 124300 | 114400 | 0.90 | 11.3 | |
| 2 | 0.386 | 3 | 0.380 | 0.11 | 0.113 | 4000 | 6000 | 80200 | 77780 | 120300 | 116700 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| **Note: only two samples for tensile and one sample for bend test** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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**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
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/01/4506 Dated: 16-01-2024

Dated of Test: 17-01-2024

**To**

**Deputy Team Leader / Resident Engineer /**
**Project Manager**
**PRSWSS Project – North**
**Techno Consultant International (Pvt) Ltd**
**Construction of Water Supply and Sewerage System in Kot Momin KMN-02.**

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHASE-II/072, dated 20.12.2023 on the subject cited above. Four 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 | 7.79 | 7.35 | 15.94 | 11.71 | 2.12 | 12000 | 18500 | 3688 | 5686 |
| 2 | 12 | 7.79 | 7.35 | 16.14 | 12.22 | 1.96 | 8000 | 11500 | 2356 | 3386 |
| 3 | 12 | 7.81 | 7.35 | 16.02 | 11.91 | 2.06 | 10000 | 14400 | 3023 | 4353 |
| 4 | 12 | 7.82 | 7.35 | 16.14 | 11.98 | 2.08 | 12500 | 15000 | 3755 | 4507 |

**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

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/01/4507 Dated: 16-01-2024

Dated of Test: 17-01-2024

**To**

**Project Manager / RE**
**EDCS Project, Pakpattan**
**Osmani & Company (Pvt) Ltd.**
**Engineering Design & Construction Supervision for Punjab Rural Sustainable. Water Supply and Sanitation Project (PRSWSSP) Cluster Central II.**

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

Reference to your letter No. PM/OCL/PRSWSSP/EDCS/Pkg-06/2023/14, dated 04.01.2024 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 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 | 7.75 | 7.35 | 16.14 | 12.10 | 2.02 | 12000 | 17500 | 3571 | 5208 |

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

Note:

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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,

M/S Canal Residence
Lahore

Reference # CED/TFL **4508** (Dr. Ali Ahmed) Dated: 16-01-2024
Reference of the request letter # Nil Dated: 16-01-2024

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

Date of Test 17-01-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size (inch) | | Area ($in^2$) | | Yield load | Breaking Load | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation | % Elongation | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lbs/ft) | Nominal | Actual | Nominal | Actual | (kg) | (kg) | Nominal | Actual | Nominal | Actual | (inch) | | |
| 1 | 0.382 | 3/8 | 0.378 | 0.11 | 0.112 | 4300 | 5300 | 86200 | 84310 | 106200 | 104000 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| **Note: only one sample for tensile and one sample for bend test** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 3/8" Dia Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
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**I/C Testing Laboratoires**
**UET Lahore, Pakistan.**

Note:
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2. The above results pertain to sample /samples supplied to this laboratory.
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