



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/12/6052

Dated: 28-11-2024

Dated of Test: 17-12-2024

To

Resident Engineer
ARY Laguna
ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. ARY(Gur.)/Eng/RE/032/24, dated 18.11.2024 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 | 9 | 7.76 | 7.29 | 11.22 | 8.79 | 1.22 | 7500 | 10200 | 3096 | 4211 |

Witness by Saeed (A.M.E ARY Laguna)

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/12/6115

Dated: 09-12-2024

Dated of Test: 17-12-2024

To

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

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. Nil, dated 28.11.2024 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 | 7.79 | 7.27 | 12.40 | 9.16 | 1.62 | 12000 | 15000 | 4770 | 5962 |
| 2 | 9 | 7.74 | 7.28 | 12.80 | 9.77 | 1.51 | 13000 | 15500 | 4831 | 5760 |

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
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/6168, 6176

Dated: 16-12-2024

Dated of Test: 17-12-2024

To

Resident Engineer
ARY Laguna
ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter No. ARY(Gur.)/Eng/RE/058/24, dated 09.12.2024 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 | 12 | 7.78 | 7.33 | 16.06 | 11.97 | 2.04 | 8000 | 11200 | 2412 | 3376 |
| 2 | 18 | 7.81 | 7.37 | 23.19 | 18.27 | 2.46 | 10000 | 12500 | 1966 | 2457 |

Witness by Saeed (A.M.E ARY Laguna)

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

To,

Contractor Representative
CCECC - HCS Jv
Expansion of Terminal Building and Allied Facilities at Allama Iqbal International
Air[port (AIIAP), Lahore

Reference # CED/TFL **6169** (Dr. Ali Ahmed)

Dated: 16-12-2024

Reference of the request letter # CCECCHCSJVAIIAP2024-451

Dated: 13-12-2024

Tension Test Report (Page -1/1)

Date of Test 17-12-2024

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 | 0.372 | 3 | 0.373 | 0.11 | 0.109 | 3600 | 4800 | 72200 | 72520 | 96200 | 96700 | 1.40 | 17.5 | Kamran |
| 2 | 0.374 | 3 | 0.374 | 0.11 | 0.110 | 3500 | 4700 | 70200 | 70210 | 94200 | 94300 | 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 | | | | | | | | | | | | | | |
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I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,

Resident Engineer
 NESPAK
 KBCMA College of Veterinary and Animal Sciences Narowal Campus.

Reference # CED/TFL **6171** (Dr. Ali Ahmed)
 Reference of the request letter # 4650/311/SR/74

Dated: 16-12-2024
 Dated: 10-12-2024

Tension Test Report (Page -1/1)

Date of Test 17-12-2024
 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 | 0.416 | 3/8 | 0.394 | 0.11 | 0.122 | 3500 | 5100 | 70200 | 63130 | 102200 | 92000 | 1.20 | 15.0 | |
| 2 | 0.436 | 3/8 | 0.404 | 0.11 | 0.128 | 3700 | 5400 | 74200 | 63670 | 108200 | 93000 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 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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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
Urban City Lahore.

Reference # CED/TFL **6172** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 16-12-2024
Dated: 16-12-2024

Tension Test Report (Page -1/1)

Date of Test 17-12-2024
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 | 0.465 | 3 | 0.417 | 0.11 | 0.137 | 4300 | 6200 | 86200 | 69350 | 124300 | 100000 | 1.40 | 17.5 | |
| 2 | 0.455 | 3 | 0.413 | 0.11 | 0.134 | 4200 | 6000 | 84200 | 69150 | 120300 | 98800 | 1.40 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,

Assistant Director (QCD)
WASA, LDA, Lahore.
(M/s Future Pipe Industry, Lahore.)

Reference # CED/TFL **6173** (Dr. Ali Ahmed)
Reference of the request letter # QCD/2484

Dated: 16-12-2024
Dated: 11-12-2024

Tension Test Report (Page -1/1)

Date of Test 17-12-2024
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 | 0.372 | 3 | 0.373 | 0.11 | 0.109 | 3000 | 4500 | 60200 | 60420 | 90200 | 90700 | 1.50 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only one sample for tensile and one sample for bend test | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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To,

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Sub Divisional Officer
Buildings Sub Division No. 12
Lahore
(Institutional Strengthening of Primary and Secondary Health Care Department Punjab
“Construction of Development Wing”)

Reference # CED/TFL **6174** (Dr. Ali Ahmed)
Reference of the request letter # 621

Dated: 16-12-2024
Dated: 25-11-2024

Tension Test Report (Page -1/1)

Date of Test 17-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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 | 0.369 | 3/8 | 0.371 | 0.11 | 0.108 | 3600 | 5100 | 72200 | 73240 | 102200 | 103800 | 0.80 | 10.0 | |
| 2 | 0.365 | 3/8 | 0.370 | 0.11 | 0.107 | 3500 | 4900 | 70200 | 71880 | 98200 | 100700 | 0.80 | 10.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile test | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
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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
Buildings Sub Division No. 19,
Lahore
(Establishment of Fatima Jinnah Institute of Dental Sciences Jublee Town, Lahore.)
“Balance Work of Construction of Teaching College / Academic Block, Boys & Girls
Hostel & Miscellaneous Work (Group No. 02)”

Reference # CED/TFL **6175** (Dr. Ali Ahmed)

Dated: 16-12-2024

Reference of the request letter # 1735

Dated: 30-11-2024

Tension Test Report (Page -1/1)

Date of Test 17-12-2024

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 | 0.367 | 3/8 | 0.371 | 0.11 | 0.108 | 4600 | 5800 | 92200 | 93990 | 116300 | 118500 | 0.80 | 10.0 | |
| 2 | 0.370 | 3/8 | 0.372 | 0.11 | 0.109 | 3300 | 4700 | 66200 | 66860 | 94200 | 95300 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 3/8" Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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I/C Testing Laboratoires
UET Lahore, Pakistan.

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