



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

To,

Deputy Director (Q.C.D)
WASA., LDA, Lahore.
Provision of Water Supply Sewerage System & Installation of Pumps and Pumping
Machinery at Azam Chowk Disposal Station, UC-249, Nishter Zone, Lahore.
(M/s Seven Star Construction Co).

Reference # CED/TFL **6650** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/886

Dated: 03-03-2025
Dated: 01-03-2025

Tension Test Report (Page – 1/2)

Date of Test 12-03-2025
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (inch) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 3x3x1/4 | 25.60x7.80 | 199.68 | 88.00 | 138.00 | 441 | 691 | 0.50 | 25.00 | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| Only One Sample for Tensile and One Sample for Bend Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
| Strip Taken from Angle Iron 3"x3"x1/4" Bend Test Through 180° is Satisfactory | | | | | | | | | | |
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I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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Machinery at Azam Chowk Disposal Station, UC-249, Nishter Zone, Lahore.
(M/s Seven Star Construction Co).

Reference # CED/TFL **6650** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/886

Dated: 03-03-2025
Dated: 01-03-2025

Weight & Size Test Report (Page – 1a/2)

Date of Test 12-03-2024
Description Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|-------|-------|-----------|--------|
| | (inch) | (g) | (mm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 3x3x1/4 | 945 | 103.20 | 9.16 | 75.00 | 75.00 | 7.50 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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Reference # CED/TFL **6650** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/887

Dated: 03-03-2025
Dated: 01-03-2025

Tension Test Report (Page – 2/2)

Date of Test 12-03-2025
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (inch) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 5x5x1/2 | 25.50x11.40 | 290.70 | 130.00 | 185.00 | 447 | 636 | 0.80 | 40.00 | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| Only One Sample for Tensile and One Sample for Bend Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
| Strip Taken from Angle Iron 5"x5"x1/2" Bend Test Through 180° is Satisfactory | | | | | | | | | | |
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I/C Testing Laboratories
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Reference # CED/TFL **6650** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/887

Dated: 03-03-2025
Dated: 01-03-2025

Weight & Size Test Report (Page – 2a/2)

Date of Test 12-03-2024
Description Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|--------|--------|-----------|--------|
| | (inch) | (g) | (mm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 5x5x1/2 | 2418 | 101.90 | 23.73 | 125.20 | 126.20 | 12.20 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,

Sarfraz Rasheed
Executive Director - Projects, Ittefaq Building Solution Pvt. Ltd.
Haider Saeed Commercial, Lahore.

Reference # CED/TFL **6677** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 10-03-2025
Dated: 10-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615
Aziz Steel

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.367 | 3 | 0.371 | 0.11 | 0.108 | 32.20 | 48.00 | 65800 | 67000 | 98100 | 99900 | 1.20 | 15.0 | |
| 2 | 0.366 | 3 | 0.370 | 0.11 | 0.108 | 32.70 | 48.20 | 66800 | 68280 | 98500 | 100700 | 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Muhammad Khalid Zaman
Resident Engineer (ECSP)
Model Cattle Market Shahpur Kanjra, Lahore. (P-2)

Reference # CED/TFL **6651** (Dr. M Rizwan Riaz)

Dated: 04-03-2025

Reference of the request letter # ECSP/MCML/68

Dated: 18-02-2025

Tension Test Report (Page – 1/2)

Date of Test 12-03-2025

Gauge length 2 inches

Description Steel Plate Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---------|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (mm) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 6 | 28.70x5.70 | 163.59 | 81.50 | 106.20 | 498 | 649 | 0.70 | 35.00 | |
| 2 | 8 | 28.50x7.50 | 213.75 | 81.70 | 109.20 | 382 | 511 | 0.90 | 45.00 | |
| 3 | 12 | 29.20x11.40 | 332.88 | 151.00 | 206.70 | 454 | 621 | 0.90 | 45.00 | |
| 4 | 20 | 29.80x18.60 | 554.28 | 220.00 | 364.00 | 397 | 657 | 0.70 | 35.00 | |
| 5 | 25 | 28.00x25.80 | 722.40 | 249.80 | 396.00 | 346 | 548 | 0.70 | 35.00 | |
| - | | - | - | - | - | - | - | - | - | |
| - | | - | - | - | - | - | - | - | - | |

Only Five Samples for Tensile and Five Samples for Bend Test

| Bend Test | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| Strip Taken from Steel Plate 6mm Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| Strip Taken from Steel Plate 8mm Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| Strip Taken from Steel Plate 12mm Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| Strip Taken from Steel Plate 20mm Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| Strip Taken from Steel Plate 25mm Bend Test Through 180° is Satisfactory | | | | | | | | | | |

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Muhammad Khalid Zaman
Resident Engineer (ECSP)
Model Cattle Market Shahpur Kanjra, Lahore. (P-2)

Reference # CED/TFL **6651** (Dr. M Rizwan Riaz)
Reference of the request letter # ECSP/MCML/68

Dated: 04-03-2025
Dated: 18-02-2025

Weight & Size Test Report (Page – 2/2)

Date of Test 12-03-2025
Description Steel Plate Weight and Size Test

| Sr. No. | Designation | Weight | Length | Width (b) | Weight per Unit Area | Thickness | Remark |
|-----------------------------------|-------------|--------|--------|-----------|----------------------|-----------|--------|
| | (mm) | (g) | (mm) | (mm) | (kg/m ²) | (mm) | |
| 1 | 6 | 557 | 108.50 | 110.10 | 46.63 | 5.70 | |
| 2 | 8 | 673 | 102.20 | 104.10 | 63.26 | 7.50 | |
| 3 | 12 | 1011 | 104.40 | 102.50 | 94.48 | 11.40 | |
| 4 | 20 | 1677 | 105.00 | 103.20 | 154.76 | 19.00 | |
| 5 | 25 | 2200 | 105.00 | 105.10 | 199.36 | 25.70 | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| Only Five Samples for Test | | | | | | | |
| | | | | | | | |

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Mohsin Abbas
QAQC Manager,
Zameen Development
Construction of ARX (CBD) Project by Zameen Development, Lahore

Reference # CED/TFL **6672** (Dr. Usman Akmal)

Dated: 07-03-2025

Reference of the request letter # ZD/QAQC/SRJ-2503-000033/ARX/06

Dated: 07-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025

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 (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|--------------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.377 | 3 | 0.375 | 0.11 | 0.111 | 36.70 | 54.50 | 75000 | 74470 | 111400 | 110600 | 1.00 | 12.5 | Heat # 24 |
| 2 | 0.378 | 3 | 0.376 | 0.11 | 0.111 | 37.00 | 55.20 | 75600 | 74860 | 112800 | 111700 | 1.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: Only Two Sample for Tensile and One for Bend test. | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory. (Heat # 24) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Test Performed and Verified by:

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,
 M/S 40-C-III
 Gulberg III, Lahore

Reference # CED/TFL **6681** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 10-03-2025
 Dated: 28-02-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025
 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 | (kN) | (kN) | Nominal | Actual | Nominal | Actual | (inch) | | |
| 1 | 0.364 | 3 | 0.369 | 0.11 | 0.107 | 37.00 | 50.50 | 75600 | 77610 | 103200 | 106000 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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,

Sub Divisional Officer
 Building Sub Division No. 5
 Lahore.

(Construction of Boundary Wall for The Regional Election Commissioner / District Election Commissioner, II & III at Mauza Bhohtian Situated in Overseas Pakistan Housing Scheme Tehsil Raiwind , Lahore.)

Reference # CED/TFL **6678** (Dr. Usman Akmal)

Dated: 10-03-2025

Reference of the request letter # 861/5th

Dated: 10-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size (inch) | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-----------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal | Actual | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.380 | 3/8 | 0.377 | 0.11 | 0.112 | 32.70 | 46.20 | 66800 | 65760 | 94400 | 93000 | 1.20 | 15.0 | |
| 2 | 0.364 | 3/8 | 0.369 | 0.11 | 0.107 | 33.50 | 49.00 | 68500 | 70370 | 100100 | 103000 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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Pakistan. Ph: 92-42-99029202

To,

Resident Engineer (GB Zone)
 EPHE Division, NESPAK
 Provision of Water Supply & Sewerage System in Mughal Park, Manzoor Park &
 Gulshan-E-Riaz Colony UC-50 Gunj Bukshh Zone, Lahore.

Reference # CED/TFL **6684** (Dr. Usman Akmal)

Dated: 10-03-2025

Reference of the request letter # LDP/GB-WASA/43101-364

Dated: 05-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025

Gauge length 8 inches

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

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.384 | 3 | 0.379 | 0.11 | 0.113 | 38.70 | 56.70 | 79100 | 77030 | 115900 | 112900 | 0.90 | 11.3 | |
| 2 | 0.382 | 3 | 0.378 | 0.11 | 0.112 | 38.70 | 57.00 | 79100 | 77450 | 116500 | 114100 | 1.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Uzair Ahmed
 Assistant Resident Engineer, Metroplan - Asian Jv
 Establishment of Nawaz Shrif Institute of Cancer Treatment and Research, Lahore.

Reference # CED/TFL **6682** (Dr. Usman Akmal)

Dated: 10-03-2025

Reference of the request letter # Metroplan-AsianJV/NS-ICTR/RE/25/099 Dated: 09-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025

Gauge length 8 inches

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

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.359 | 3 | 0.367 | 0.11 | 0.106 | 37.20 | 50.50 | 76000 | 79110 | 103200 | 107400 | 1.20 | 15.0 | |
| 2 | 0.360 | 3 | 0.367 | 0.11 | 0.106 | 37.50 | 51.00 | 76600 | 79540 | 104200 | 108200 | 1.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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.

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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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
 Building Sub Division No. 2
 Gujranwala.
 (Establishment of University of Gujranwala Group No. 02 (Construction of 3-Nos
 Academic Block))

Reference # CED/TFL **6683** (Dr. Usman Akmal)

Dated: 10-03-2025

Reference of the request letter # 522/G-21

Dated: 18-12-2024

Tension Test Report (Page -1/1)

Date of Test 11-03-2025

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size (inch) | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-----------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal | Actual | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.365 | 3/8 | 0.369 | 0.11 | 0.107 | 38.00 | 46.20 | 77700 | 79640 | 94400 | 96900 | 1.00 | 12.5 | |
| 2 | 0.364 | 3/8 | 0.369 | 0.11 | 0.107 | 37.00 | 46.50 | 75600 | 77650 | 95000 | 97600 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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,

Arch. Kalim A. Siddiqui
 Chief Executive, KS & Associates.
 Stting up of MCB Bank at Chak No. 533/EB, Burewala Road, Dist. Vehari.

Reference # CED/TFL **6674** (Dr. Usman Akmal)

Dated: 10-03-2025

Reference of the request letter # KSA/MCB-BW-VEHARI/24/M-14

Dated: 07-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025

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 (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.405 | 3 | 0.389 | 0.11 | 0.119 | 42.00 | 53.50 | 85800 | 79260 | 109300 | 101000 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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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,
 Muhammad Imran Rana
 Managing Director, Al-Mustafa Contractor (Pvt) Limited.
 Construction of Bounded Warehouse SDPT, Sambrial, Punjab.

Reference # CED/TFL **6671** (Dr. Usman Akmal)
 Reference of the request letter # AMC/UET/2128-28

Dated: 07-03-2025
 Dated: 06-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615
 FF Steel

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.369 | 3 | 0.371 | 0.11 | 0.108 | 38.70 | 49.50 | 79100 | 80230 | 101200 | 102700 | 1.10 | 13.8 | |
| 2 | 0.369 | 3 | 0.371 | 0.11 | 0.108 | 38.70 | 48.20 | 79100 | 80250 | 98500 | 100000 | 0.90 | 11.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two sample 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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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
 Highway Sub Division
 Bahawalnagar

(Construction of Roads & Rehabilitation of Metalled Roads in 1-Doulatpur, 2-Laleka, 3-BachyanWali, 4-Fidai Shah, 5-Sted Ali, 7-Bunga Akbar Mari Nehal, 23-M Pur Sansaran, 24-Toba Balochan, 25-Kabutary, 26-Kalia Shah, 27-Qasimka, 28-Sanateeka, 29-Momin Abbas, 30-Mari Mian Sahab, 31-Mosa Bhota, 32-Rojhan Wali, 33-Jhulan Arain, 34-Toba QalandarShah Length 6.20km District Bahawalnagar.

Reference # CED/TFL **6686** (Dr. Usman Akmal)

Dated: 10-03-2025

Reference of the request letter # 396 BWN

Dated: 03-01-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025

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 ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-----------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal | Actual | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.368 | 3/8 | 0.371 | 0.11 | 0.108 | 35.20 | 50.70 | 71900 | 73070 | 103600 | 105300 | 1.30 | 16.3 | |
| 2 | 0.374 | 3/8 | 0.374 | 0.11 | 0.110 | 36.50 | 52.00 | 74600 | 74640 | 106300 | 106400 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Engr. Muhammad Salman Saqib
 Resident Engineer, ARY Laguna,
 ARY Laguna Gateway & Pedestrian Crossover / Linear Park DHA Gujranwala.

Reference # CED/TFL **6692** (Dr. Usman Akmal)

Dated: 11-03-2025

Reference of the request letter # AR(Gujr)/GL/Eng/RE/013/25

Dated: 10-03-2025

Tension Test Report (Page -1/2)

Date of Test 12-03-2025

Gauge length 8 inches

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

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.370 | 3 | 0.372 | 0.11 | 0.109 | 40.00 | 49.50 | 81700 | 82570 | 101200 | 102200 | 1.00 | 12.5 | |
| 2 | 0.368 | 3 | 0.371 | 0.11 | 0.108 | 38.20 | 48.00 | 78100 | 79390 | 98100 | 99800 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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 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,

Engr. Muhammad Salman Saqib
 Resident Engineer, ARY Laguna,
 ARY Laguna Gateway & Pedestrian Crossover / Linear Park DHA Gujranwala.

Reference # CED/TFL **6692** (Dr. Usman Akmal)

Dated: 11-03-2025

Reference of the request letter # AR(Gujr)/GL/Eng/RE/012/25

Dated: 10-03-2025

Tension Test Report (Page -2/2)

Date of Test 12-03-2025

Gauge length 8 inches

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

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.410 | 3 | 0.392 | 0.11 | 0.121 | 42.70 | 55.20 | 87300 | 79530 | 112800 | 102900 | 1.00 | 12.5 | |
| 2 | 0.410 | 3 | 0.392 | 0.11 | 0.120 | 42.50 | 55.20 | 86900 | 79260 | 112800 | 103000 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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I/C Testing Laboratories
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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,

Engr. Aziz ur Rehman
Assistant Resident Engineer, ACE-Arts Limited.
Net Zero Energy Building (ACEIP, DLI-8), Gulberg III Lahore.

Reference # CED/TFL **6694** (Dr. Usman Akmal)
Reference of the request letter # NZEB/ACE/LAB/2025/26

Dated: 11-03-2025
Dated: 11-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615
Sheikho Steel

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | 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 | 0.109 | 36.00 | 49.50 | 73600 | 74500 | 101200 | 102500 | 1.40 | 17.5 | |
| 2 | 0.373 | 3 | 0.374 | 0.11 | 0.110 | 36.70 | 50.20 | 75000 | 75190 | 102600 | 102900 | 1.50 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

I/C Testing Laboratoires
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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/03/6699

Dated: 12-03-2025

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/AZEA/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.**

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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,

Deputy Director (Q.C.D)
WASA., LDA, Lahore.

Provision of Water Supply and Sewerage System & Construction of Lift Station at
Gajjumatta for 1 Year. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/946

Dated: 11-03-2025

Dated: 06-03-2025

Tension Test Report (Page – 1/4)

Date of Test 12-03-2025

Gauge length 2 inches

Description Angle Iron Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (inch) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 4x4x1/2 | 36.60x12.50 | 457.50 | 174.00 | 259.00 | 380 | 566 | 1.00 | 50.00 | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| Only One Sample for Tensile and One Sample for Bend Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
| Strip Taken from Angle Iron 4"x4"x1/2" Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| | | | | | | | | | | |
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I/C Testing Laboratories
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,

Deputy Director (Q.C.D)

WASA., LDA, Lahore.

Provision of Water Supply and Sewerage System & Construction of Lift Station at Gajjumatta for 1 Year. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)

Dated: 11-03-2025

Reference of the request letter # QCD/946

Dated: 06-03-2025

Weight & Size Test Report (Page – 1a/4)

Date of Test 12-03-2024

Description Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|--------|--------|-----------|--------|
| | (inch) | (g) | (mm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 4x4x1/2 | 1973 | 100.6 | 19.61 | 103.30 | 104.60 | 12.50 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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,

Deputy Director (Q.C.D)
WASA., LDA, Lahore.
Provision of Water Supply and Sewerage System & Construction of Lift Station at
Gajjumatta for 1 Year. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/947

Dated: 11-03-2025
Dated: 06-03-2025

Tension Test Report (Page – 2/4)

Date of Test 12-03-2025
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (inch) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 3x3x1/4 | 36.80x5.50 | 202.40 | 89.20 | 129.20 | 441 | 638 | 0.80 | 40.00 | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| Only One Sample for Tensile and One Sample for Bend Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
| Strip Taken from Angle Iron 3"x3"x1/4" Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| | | | | | | | | | | |
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I/C Testing Laboratories
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,

Deputy Director (Q.C.D)

WASA., LDA, Lahore.

Provision of Water Supply and Sewerage System & Construction of Lift Station at Gajjumatta for 1 Year. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)

Dated: 11-03-2025

Reference of the request letter # QCD/947

Dated: 06-03-2025

Weight & Size Test Report (Page – 2a/4)

Date of Test 12-03-2024

Description Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|-------|-------|-----------|--------|
| | (inch) | (g) | (mm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 3x3x1/4 | 694 | 100.9 | 6.88 | 74.10 | 73.20 | 5.50 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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,

Deputy Director (Q.C.D)
WASA., LDA, Lahore.

Provision of Water Supply and Sewerage System in Hudiara Drain near Katcha Defence Road, UC-251, Nishtar Zone, Lahore. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/963

Dated: 11-03-2025
Dated: 06-03-2025

Tension Test Report (Page – 3/4)

Date of Test 12-03-2025
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (inch) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 3x3x1/4 | 36.80x5.60 | 206.08 | 89.50 | 130.20 | 434 | 632 | 0.80 | 40.00 | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| Only One Sample for Tensile and One Sample for Bend Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
| Strip Taken from Angle Iron 3"x3"x1/4" Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

I/C Testing Laboratories
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,

Deputy Director (Q.C.D)

WASA., LDA, Lahore.

Provision of Water Supply and Sewerage System in Hudiara Drain near Katcha Defence Road, UC-251, Nishtar Zone, Lahore. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)

Dated: 11-03-2025

Reference of the request letter # QCD/963

Dated: 06-03-2025

Weight & Size Test Report (Page – 1a/4)

Date of Test 12-03-2024

Description Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|-------|-------|-----------|--------|
| | (inch) | (g) | (mm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 3x3x1/4 | 1691 | 100.0 | 16.91 | 73.70 | 73.00 | 5.60 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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,
Deputy Director (Q.C.D)
WASA., LDA, Lahore.
Provision of Water Supply and Sewerage System in Hudiarra Drain near Katcha Defence Road, UC-251, Nishtar Zone, Lahore. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)
Reference of the request letter # QCD/965

Dated: 11-03-2025
Dated: 06-03-2025

Tension Test Report (Page – 4/4)

Date of Test 12-03-2025
Gauge length 2 inches
Description Angle Iron Steel Strip Tensile and Bend Test

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|---|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (inch) | (mm) | (mm ²) | (kN) | (kN) | (MPa) | (MPa) | (in) | | |
| 1 | 4x4x1/2 | 36.30x12.10 | 439.23 | 158.20 | 239.50 | 360 | 545 | 0.80 | 40.00 | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | |
| Only One Sample for Tensile and One Sample for Bend Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
| Strip Taken from Angle Iron 4"x4"x1/2" Bend Test Through 180° is Satisfactory | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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,

Deputy Director (Q.C.D)

WASA., LDA, Lahore.

Provision of Water Supply and Sewerage System in Hudiara Drain near Katcha Defence Road, UC-251, Nishtar Zone, Lahore. (M/s Global Construction Company).

Reference # CED/TFL **6693** (Dr. M Rizwan Riaz)

Dated: 11-03-2025

Reference of the request letter # QCD/965

Dated: 06-03-2025

Weight & Size Test Report (Page – 4a/4)

Date of Test 12-03-2024

Description Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|--------|--------|-----------|--------|
| | (inch) | (g) | (mm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 4x4x1/2 | 1963 | 101.50 | 19.34 | 102.80 | 104.20 | 12.50 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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,
 Rashid Kamran
 Resident Engineer, NESPAK
 Construction of Electric Bus Depot at Green Town, Lahore.

Reference # CED/TFL **6695** (Dr. Usman Akmal)
 Reference of the request letter # 4792/13/RK/05/48

Dated: 11-03-2025
 Dated: 10-03-2025

Tension Test Report (Page -1/1)

Date of Test 12-03-2025
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615
 Aziz Steel

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kN) | Breaking Load (kN) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.372 | 3 | 0.373 | 0.11 | 0.109 | 34.00 | 51.20 | 69500 | 69920 | 104600 | 105300 | 1.30 | 16.3 | |
| 2 | 0.373 | 3 | 0.374 | 0.11 | 0.110 | 33.20 | 48.50 | 67900 | 67980 | 99100 | 99400 | 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 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

I/C Testing Laboratoires
 UET Lahore, Pakistan.

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