



**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  
 M. Garh – D.G Khan Road

Reference # CED/TFL **33806** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 3949/HA/01/297

Dated: 11-09-2019  
 Dated: 28-08-2019

**Tension Test Report** (Page – 1/2)

Date of Test 16-09-2019  
 Gauge length 2 inches  
 Description W-Section & Vertical Post 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 |
|--|---------------|---------------|----------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
|  |               |               |                |            |               |              |                 |            |              |         |
| 1  | W-Section     | 2.89x0.285    | 0.82           | 3100       | 4400          | 3763.73      | 5342.07         | 0.50       | 25.00        |         |
| 2  |               | 2.89x0.285    | 0.82           | 3100       | 4500          | 3763.73      | 5463.49         | 0.50       | 25.00        |         |
| 3  | Vertical Post | 2.49x0.715    | 1.78           | 6800       | 9500          | 3819.47      | 5336.03         | 0.70       | 35.00        |         |
| 4  |               | 2.49x0.715    | 1.78           | 6800       | 9800          | 3819.47      | 5504.54         | 0.70       | 35.00        |         |
| -  | -             | -             | -              | -          | -             | -            | -               | -          | -            |         |
| -  | -             | -             | -              | -          | -             | -            | -               | -          | -            |         |
| <b>Only Four Samples for Tensile and Two Samples for Bend Test</b> |               |               |                |            |               |              |                 |            |              |         |
| <b>Bend Test</b>   |               |               |                |            |               |              |                 |            |              |         |
| Strip Taken from W-Section Bend Test Through 180° is Satisfactory  |               |               |                |            |               |              |                 |            |              |         |
| Strip Taken from W-Section Bend Test Through 180° is Satisfactory  |               |               |                |            |               |              |                 |            |              |         |

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

Note:

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To,  
Resident Engineer  
NESPAK  
M. Garh – D.G Khan Road

Reference # CED/TFL **33806** (Dr. M Rizwan Riaz)  
Reference of the request letter # 3949/HA/01/297

Dated: 11-09-2019  
Dated: 28-08-2019

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

Date of Test                    16-09-2019  
Gauge length                 -----  
Description                    Vertical Post Weight and Size Test

| Sr. No.                         | Designation   | Weight | Length | Weight per Unit Length | Depth <sub>d</sub> | Thickness | Remark |
|---------------------------------|---------------|--------|--------|------------------------|--------------------|-----------|--------|
|                                 |               | (g)    | (mm)   | (kg/m)                 | (mm)               | (mm)      |        |
| 1                               | Vertical Post | 985    | 79.00  | 12.47                  | 120.00             | 7.10      |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| -                               | -             | -      | -      | -                      | -                  | -         |        |
| <b>Only One Sample for Test</b> |               |        |        |                        |                    |           |        |
|                                 |               |        |        |                        |                    |           |        |

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**UET Lahore, Pakistan.**

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To,  
 Senior Resident Engineer  
 ProMag Pvt Ltd  
 Development of Sector M1 - DHA Multan  
 (M/s FTC Pvt Ltd)(Mughal Steel)

Reference # CED/TFL **33818** (Dr. M Rizwan Riaz)  
 Reference of the request letter # CRE/Sec-M1/315

Dated: 13-09-2019  
 Dated: 11-09-2019

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

Date of Test 16-09-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

| Sr. No.  | Weight<br>(lbs/ft) | Diameter/<br>Size<br>(mm) |        | Area<br>(in <sup>2</sup> ) |        | Yield load<br>(kg) | Breaking<br>Load<br>(kg) | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation<br>(inch) | % Elongation | Remarks |
|--|--------------------|---------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
|  |                    | Nominal                   | Actual | Nominal                    | Actual |                    |                          | Nominal               | Actual | Nominal                  | Actual |                      |              |         |
| 1  | 0.415              | 10                        | 10.01  | 0.12                       | 0.122  | 4300               | 5400                     | 78998                 | 77670  | 99207                    | 97600  | 0.80                 | 10.0         |         |
| 2  | 0.413              | 10                        | 9.99   | 0.12                       | 0.122  | 4400               | 5400                     | 80835                 | 79810  | 99207                    | 98000  | 0.80                 | 10.0         |         |
| -  | -                  | -                         | -      | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -  | -                  | -                         | -      | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -  | -                  | -                         | -      | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -  | -                  | -                         | -      | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| <b>Note: only two samples for tensile test</b> |                    |                           |        |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
| Bend Test                                      |                    |                           |        |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|  |                    |                           |        |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|  |                    |                           |        |                            |        |                    |                          |                       |        |                          |        |                      |              |         |

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**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
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To,  
 Furqan Ali Malik  
 Construction/ Improvement & Rehabilitation of at Grade Works along Lahore Orange Line Metro Train  
 Corridor Construction of Steel Impact Gentries for Station of Package-1

Reference # CED/TFL **33820** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 4042/13/FAM/steel-088

Dated: 13-09-2019  
 Dated: 07-07-2019

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

Date of Test 16-09-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No.  | Weight<br>(lbs/ft) | Diameter/<br>size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load<br>(kg) | Breaking<br>Load<br>(kg) | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation<br>(inch) | % Elongation | Remarks   |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|-----------|
|  |                    | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual |                    |                          | Nominal               | Actual | Nominal                  | Actual |                      |              |           |
| 1  | 4.240              | 10                | 1.260            | 1.27                       | 1.246  | 40600              | 52800                    | 70500                 | 71800  | 91700                    | 93400  | 1.50                 | 18.8         | S.J Steel |
| 2  | 4.287              | 10                | 1.267            | 1.27                       | 1.260  | 41200              | 53800                    | 71500                 | 72070  | 93400                    | 94100  | 1.60                 | 20.0         |           |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |           |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |           |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |           |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |           |
| <b>Note: only two samples for tensile and one sample for bend test</b> |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |           |
| Bend Test  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |           |
| #10 Bar Bend Test Through 180° is Satisfactory                         |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |           |
|  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |           |
|  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |           |

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(External Elec Works (U/G) IVY Green, Sector-Z, DHA Ph-VIII)(M/s NLC)

Reference # CED/TFL **33821** (Dr. M Rizwan Riaz)  
Reference of the request letter # 408/241/E/Lab/692/1294

Dated: 13-09-2019  
Dated: 12-09-2019

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

Date of Test 16-09-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No.  | Weight<br>(lbs/ft) | Diameter/<br>size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load<br>(kg) | Breaking<br>Load<br>(kg) | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation<br>(inch) | % Elongation | Remarks         |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|-----------------|
|  |                    | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual |                    |                          | Nominal               | Actual | Nominal                  | Actual |                      |              |                 |
| 1  | 0.376              | 3                 | 0.375            | 0.11                       | 0.110  | 3800               | 5200                     | 76200                 | 75860  | 104200                   | 103900 | 1.10                 | 13.8         | Kamran<br>Steel |
| 2  | 0.375              | 3                 | 0.375            | 0.11                       | 0.110  | 4000               | 5100                     | 80200                 | 79960  | 102200                   | 102000 | 1.00                 | 12.5         |                 |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |                 |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |                 |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |                 |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |                 |
| <b>Note: only two samples for tensile and one sample for bend test</b> |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |                 |
| Bend Test  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |                 |
| #3 Bar Bend Test Through 180° is Satisfactory                          |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |                 |
|  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |                 |
|  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |                 |

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**Pakistan. Ph: 92-42-99029202**

To,  
 W - Mall  
 MM Alam Road, lahore

Reference # CED/TFL **33823** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 13-09-2019  
 Dated: 13-09-2019

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

Date of Test 16-09-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

| Sr. No.                                       | Weight<br>(lbs/ft) | Diameter/<br>size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load<br>(kg) | Breaking<br>Load<br>(kg) | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation<br>(inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
|   |                    | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual |                    |                          | Nominal               | Actual | Nominal                  | Actual |                      |              |         |
| 1   | 0.379              | 3                 | 0.376            | 0.11                       | 0.111  | 3400               | 5300                     | 68200                 | 67340  | 106200                   | 105000 | 0.90                 | 11.3         |         |
| -   | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -   | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -   | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -   | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -   | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| <b>Note: only one sample for tensile test</b> |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
| Bend Test                                     |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|   |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|   |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|   |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |

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To,  
 Resident Engineer  
 G3 Engineering Consultants (Pvt) Ltd  
 Construction of Infrastructure and Allied at Rachna Industrial Parks at District Sheikhpura.  
 Phase-2

Reference # CED/TFL **33824** (Dr. M Rizwan Riaz)  
 Reference of the request letter # G-3/0207/1093

Dated: 13-09-2019  
 Dated: 13-09-2019

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

Date of Test 16-09-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No.   | Weight<br>(lbs/ft) | Diameter/<br>size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load<br>(kg) | Breaking<br>Load<br>(kg) | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation<br>(inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
|   |                    | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual |                    |                          | Nominal               | Actual | Nominal                  | Actual |                      |              |         |
| 1   | 0.383              | 3                 | 0.379            | 0.11                       | 0.113  | 3400               | 5200                     | 68200                 | 66530  | 104200                   | 101800 | 1.00                 | 12.5         |         |
| .   | .                  | .                 | .                | .                          | .      | .                  | .                        | .                     | .      | .                        | .      | .                    | .            |         |
| .   | .                  | .                 | .                | .                          | .      | .                  | .                        | .                     | .      | .                        | .      | .                    | .            |         |
| .   | .                  | .                 | .                | .                          | .      | .                  | .                        | .                     | .      | .                        | .      | .                    | .            |         |
| .   | .                  | .                 | .                | .                          | .      | .                  | .                        | .                     | .      | .                        | .      | .                    | .            |         |
| .   | .                  | .                 | .                | .                          | .      | .                  | .                        | .                     | .      | .                        | .      | .                    | .            |         |
| <b>Note: only one sample for tensile and one sample for bend test</b> |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
| Bend Test   |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
| #3 Bar Bend Test Through 180° is Satisfactory                         |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|   |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|   |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |

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To,  
 Resident Engineer  
 AZ Engineering Associates

Construction Supervision of Scheme Pertaining to "Naya Pakistan Manzilyen Asan" Rural Accessibilty Programme (RAP) Phase-I for The Year 2018-19 Pertaining to Highway Circle Lahore (District Nankana Sahib)

1. Rehabilitation/ Construction of Road from Nankana Mangatanwala Road to Pipal wala via Bangla Nabi pur Piran Nabi pur Dak Pindi Piran Length = 13.20 km in District Nankana Sahib
2. Rehabilitation/ Construction of Road from Nankana Shahkot Road Kamalpur Choki to Panwan via Nathuwala Tehsil Shahkot Length = 6.90 km

Reference # CED/TFL **33830** (Dr. Qasim Khan)

Dated: 16-09-2019

Reference of the request letter # RE/LHR-53

Dated: 16-09-2019

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

Date of Test 16-09-2019

Gauge length 8 inches

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

| Sr. No.  | Weight<br>(lbs/ft) | Diameter/<br>size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load<br>(kg) | Breaking<br>Load<br>(kg) | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation<br>(inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
|  |                    | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual |                    |                          | Nominal               | Actual | Nominal                  | Actual |                      |              |         |
| 1  | 0.367              | 3                 | 0.370            | 0.11                       | 0.108  | 3900               | 4800                     | 78200                 | 79770  | 96200                    | 98200  | 0.90                 | 11.3         |         |
| 2  | 0.367              | 3                 | 0.371            | 0.11                       | 0.108  | 3800               | 4700                     | 76200                 | 77580  | 94200                    | 96000  | 1.20                 | 15.0         |         |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| -  | -                  | -                 | -                | -                          | -      | -                  | -                        | -                     | -      | -                        | -      | -                    | -            |         |
| <b>Note: only two samples for tensile and one sample for bend test</b> |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
| Bend Test  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
| #3 Bar Bend Test Through 180° is Satisfactory                          |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |
|  |                    |                   |                  |                            |        |                    |                          |                       |        |                          |        |                      |              |         |

Witness by Ali Shahid (Material Engineer AZEA)

**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