



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

To,

Project Incharge  
Ijaz Cotton Pvt Ltd.  
At 34 km Nabi Baksh Derozpur Road Lahore.

Reference # CED/TFL **5323** (Dr. Ali Ahmed)

Dated: 09-07-2024

Reference of the request letter # MST./Second Floor Lantor + Beams and for Third floor  
Coulmn's

Dated: 07-07-

2024

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

Date of Test

10-07-2024

Gauge length

8 inches

Description

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

| Sr. No.   | Weight   | Diameter/<br>Size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load | Breaking<br>Load | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation | % Elongation | Remarks |
|---|----------|-------------------|------------------|----------------------------|--------|------------|------------------|-----------------------|--------|--------------------------|--------|------------|--------------|---------|
|   | (lbs/ft) | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual | (kg)       | (kg)             | Nominal               | Actual | Nominal                  | Actual | (inch)     |              |         |
| 1   | 0.363    | 3                 | 0.368            | 0.11                       | 0.107  | 3200       | 4700             | 64200                 | 66170  | 94200                    | 97200  | 1.20       | 15.0         |         |
| 2   | 0.380    | 3                 | 0.377            | 0.11                       | 0.112  | 3300       | 5000             | 66200                 | 65060  | 100200                   | 98600  | 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**  
**UET Lahore, Pakistan.**

Note:

- 1- You can See your reports On Internet in the following web site  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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**Test Floor Laboratory**  
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To,

M/S Samad Rubber Works (Private) Ltd.  
Lahore

Reference # CED/TFL **5324** (Dr. Ali Ahmed)  
Reference of the request letter # Workshop-UET/

Dated: 09-07-2024  
Dated: 08-07-2024

**Tension Test Report** (Page – 1/1)

Date of Test 10-07-05-2024  
Description Steel Wire Rope Tensile Test

| Sr. No.                  | Nominal Diameter | Measured weight | Breaking Load | Remarks / Coil No. |
|--------------------------|------------------|-----------------|---------------|--------------------|
|                          | (mm)             | (kg/m)          | (kg)          |                    |
| 1                        | 12               | 0.55            | 8400          |                    |
| -                        | -                | -               | -             |                    |
| -                        | -                | -               | -             |                    |
| -                        | -                | -               | -             |                    |
| -                        | -                | -               | -             |                    |
| Only one sample for Test |                  |                 |               |                    |
|                          |                  |                 |               |                    |

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,

Construction Manager  
Elite Engineering Pvt. Ltd.  
Development of Fuel Handling Facility at Lahore Station.  
Pakistan State Oil Company Limited.

Reference # CED/TFL **5326** (Dr. Ali Ahmed)  
Reference of the request letter # EEPL/10402/EL-01

Dated: 09-07-2024  
Dated: 09-07-2024

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

Date of Test 10-07-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No.   | Weight   | Diameter/<br>Size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load | Breaking<br>Load | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation | % Elongation | Remarks          |
|---|----------|-------------------|------------------|----------------------------|--------|------------|------------------|-----------------------|--------|--------------------------|--------|------------|--------------|------------------|
|   | (lbs/ft) | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual | (kg)       | (kg)             | Nominal               | Actual | Nominal                  | Actual | (inch)     |              |                  |
| 1   | 0.363    | 3                 | 0.369            | 0.11                       | 0.107  | 3100       | 4700             | 62200                 | 63950  | 94200                    | 97000  | 1.20       | 15.0         | Markhor<br>Steel |
| 2   | 0.365    | 3                 | 0.370            | 0.11                       | 0.107  | 3100       | 4800             | 62200                 | 63690  | 96200                    | 98700  | 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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**Test Floor Laboratory**  
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To,

M/S M. Saleem Construction Company  
Sheikhupura  
(Limestone Powder Storage MPPL)

Reference # CED/TFL **5328** (Dr. Ali Ahmed)  
Reference of the request letter # Nil

Dated: 09-07-2024  
Dated: 09-07-2024

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

Date of Test 10-07-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No.  | Weight   | Diameter/<br>Size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load | Breaking<br>Load | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation | % Elongation | Remarks |
|--|----------|-------------------|------------------|----------------------------|--------|------------|------------------|-----------------------|--------|--------------------------|--------|------------|--------------|---------|
|  | (lbs/ft) | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual | (kg)       | (kg)             | Nominal               | Actual | Nominal                  | Actual | (inch)     |              |         |
| 1  | 0.411    | 3                 | 0.392            | 0.11                       | 0.121  | 3800       | 5200             | 76200                 | 69300  | 104200                   | 94900  | 1.40       | 17.5         |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| 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,

Project Manager Civil  
Gulberg City Centre, Lahore  
Gulberg City Centre, Gulberg II 5 K, Lahore.

Reference # CED/TFL **5329** (Dr. Asif Hameed)  
Reference of the request letter # Nil

Dated: 10-07-2024  
Dated: 04-07-2024

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

Date of Test 10-07-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No.  | Weight   | Diameter/<br>Size |                  | Area<br>(in <sup>2</sup> ) |        | Yield load | Breaking<br>Load | Yield Stress<br>(psi) |        | Ultimate Stress<br>(psi) |        | Elongation | % Elongation | Remarks |
|--|----------|-------------------|------------------|----------------------------|--------|------------|------------------|-----------------------|--------|--------------------------|--------|------------|--------------|---------|
|  | (lbs/ft) | Nominal<br>(#)    | Actual<br>(inch) | Nominal                    | Actual | (kg)       | (kg)             | Nominal               | Actual | Nominal                  | Actual | (inch)     |              |         |
| 1  | 0.368    | 3                 | 0.371            | 0.11                       | 0.108  | 3900       | 5000             | 78200                 | 79560  | 100200                   | 102000 | 0.90       | 11.3         |         |
| 2  | 0.368    | 3                 | 0.371            | 0.11                       | 0.108  | 4300       | 5400             | 86200                 | 87720  | 108200                   | 110200 | 0.80       | 10.0         |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| -  | -        | -                 | -                | -                          | -      | -          | -                | -                     | -      | -                        | -      | -          | -            |         |
| Note: only two samples for tensile and one samples for bend test |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |         |
|  |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |         |
| Bend Test  |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |         |
| #3 Bar Bend Test Through 180° is Satisfactory                    |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |         |
|  |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |         |
|  |          |                   |                  |                            |        |            |                  |                       |        |                          |        |            |              |         |

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