

Liquat Hayat

Test Performed By: Dr. /Engr. Asad Ali Gillani

SD Forest Officer,Civil Const Works Under Project Dev Of PABBI National Park Forest SD Kharian)

Client Reference: 38/KSD

SOM Lab Ref: 117 (Page-1/1)

Dated: 17-03-2022

Dated: 06-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 0.594  | 4       | 0.472      | 0.20            | 0.175           | 6.09       | 8.07          | 67110                       | 76700                        | 89030                       | 101750                       | 1.10       | 8.0          | 13.8            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |  |   |
|-----|--|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-<br/><br/>Only Two Samples Received and Tested</b> |
|     |  |   |
|     |  |   |
|     |  |   |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Maj Adnan Khalid (R)

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

By Dir MTL DHA Lhr,(U/G Exter Electification Works,Alongwith Street Lighting Sys Sec-IV,DHA Ph-XI)

Client Reference: 408/241/32/Lab/86/Elec-33

SOM Lab Ref: 118 (Page-1/1)

Dated: 05-04-2022

Dated: 06-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF Steel)

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 1.031  | 5       | 0.621      | 0.31            | 0.303           | 9.14       | 14.44         | 65050                       | 66560                        | 102760                      | 105140                       | 1.30       | 8.0          | 16.3            |         |
| 2     | 1.036  | 5       | 0.622      | 0.31            | 0.304           | 9.19       | 14.80         | 65420                       | 66710                        | 105300                      | 107380                       | 1.20       | 8.0          | 15.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |  |  |
|-----|--|--|
| # 5 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-</b><br><br><b>Only Three Samples Received and Tested</b> |
|     |  |  |
|     |  |  |
|     |  |  |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Mohammad Azam  
 PM Daniyal Enterprise.(57-C BWC DHA Phase 8 Project Lahore)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: Nil

SOM Lab

Ref: 121 (Page-1/1)

Dated: 06-04-2022

Dated: 06-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 2.568  | 8       | 0.980      | 0.79            | 0.755           | 27.27      | 33.91         | 76130                       | 79660                        | 94680                       | 99070                        | 1.30       | 8.0          | 16.3            |         |
| 2     | 2.539  | 8       | 0.975      | 0.79            | 0.746           | 27.90      | 34.61         | 77890                       | 82490                        | 96620                       | 102310                       | 1.30       | 8.0          | 16.3            |         |
| 3     | 1.506  | 6       | 0.751      | 0.44            | 0.443           | 14.53      | 18.45         | 72810                       | 72320                        | 92480                       | 91860                        | 1.20       | 8.0          | 15.0            |         |
| 4     | 1.501  | 6       | 0.749      | 0.44            | 0.441           | 15.85      | 19.47         | 79450                       | 79270                        | 97590                       | 97370                        | 1.30       | 8.0          | 16.3            |         |
| 5     | 0.668  | 4       | 0.500      | 0.20            | 0.196           | 6.93       | 8.41          | 76440                       | 78000                        | 92740                       | 94630                        | 1.00       | 8.0          | 12.5            |         |
| 6     | 0.655  | 4       | 0.494      | 0.20            | 0.192           | 6.37       | 7.31          | 70260                       | 73190                        | 80600                       | 83960                        | 1.20       | 8.0          | 15.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |  |  |
|-----|--|--|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-<br/><br/>Only Nine Samples<br/>Received and Tested</b> |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |  |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |  |
|     |  |  |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Waqas Ali Khan (Maj)

Test Performed By: Dr. /Engr. Wasim Abbas

ADH (Works)-IV Army Offrs Housing Complex Lahore.(Const Of 103 x SUHs Sec-S Askari-X Lhr)

Client Reference: 607/Proj/SUH/Sec-S/Steel/ADH-IV

SOM Lab

Ref: 122 (Page-1/1)

Dated: 04-04-2022

Dated: 06-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Ittefaq Steel)

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 1.466  | 6       | 0.741      | 0.44            | 0.431           | 14.50      | 18.62         | 72660                       | 74180                        | 93350                       | 95300                        | 1.30       | 8.0          | 16.3            |         |
| 2     | 1.026  | 5       | 0.620      | 0.31            | 0.302           | 10.52      | 13.05         | 74840                       | 76830                        | 92830                       | 95290                        | 1.00       | 8.0          | 12.5            |         |
| 3     | 0.649  | 4       | 0.493      | 0.20            | 0.191           | 6.09       | 9.28          | 67110                       | 70270                        | 102290                      | 107110                       | 1.20       | 8.0          | 15.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |

**BEND TEST:**

|    |                        |   |
|----|------------------------|---|
| -- | No Bend test performed | <b>Note:-<br/><br/>Only Three Samples Received and Tested</b> |
|    |                        |   |
|    |                        |   |
|    |                        |   |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

M.Nadeem Zafar Ullah

Test Performed By: Dr. /Engr. Asad Ali Gillani

Incharge (Civil),SNGPL.(Const And Commission Of Weighbridge At Central Base Store Manga)

Client Reference: CC/W.Bridge/CBS/Manga

SOM Lab

Ref: 123 (Page-1/1)

Dated: 06-04-2022

Dated: 06-04-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 2.644  | 8       | 0.995      | 0.79            | 0.777           | 26.61      | 34.05         | 74280                       | 75520                        | 95050                       | 96640                        | 1.30       | 8.0          | 16.3            |         |
| 2     | 2.630  | 8       | 0.992      | 0.79            | 0.773           | 26.30      | 33.66         | 73420                       | 75040                        | 93970                       | 96040                        | 1.20       | 8.0          | 15.0            |         |
| 3     | 1.491  | 6       | 0.747      | 0.44            | 0.438           | 14.48      | 18.30         | 72560                       | 72890                        | 91720                       | 92140                        | 1.10       | 8.0          | 13.8            |         |
| 4     | 1.482  | 6       | 0.745      | 0.44            | 0.436           | 14.60      | 18.20         | 73170                       | 73840                        | 91210                       | 92040                        | 1.00       | 8.0          | 12.5            |         |
| 5     | 0.675  | 4       | 0.502      | 0.20            | 0.198           | 7.95       | 9.30          | 87680                       | 88570                        | 102520                      | 103550                       | 0.90       | 8.0          | 11.3            |         |
| 6     | 0.679  | 4       | 0.505      | 0.20            | 0.200           | 9.17       | 10.32         | 101170                      | 101170                       | 113760                      | 113760                       | 0.80       | 8.0          | 10.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|    |                        |  |
|----|------------------------|--|
| -- | No Bend test performed | <b>Note:-<br/>Only Six Samples<br/>Received and Tested</b> |
|    |                        |  |
|    |                        |  |
|    |                        |  |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Maj Adnan Khalid ®

Dy Dir MTL.

Testing of J-Bolt, Const of (U/G) External Electification works Alongwith Street Lighting System

Sec-IV,(Rahbar) DHA Ph-XI (M/S DHA-C)

Client Reference: 408/241/32/88A/Elec-40

Dated: 05-04-2022

SOM Lab Ref: CED/SOM/119(Page-1/2)

Dated: 06-04-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: J Bolt

Gauge Length: 200 mm

| S.No. | Diameter | Area            | Yield Load | Ultimate Load | Yield Stress | Ultimate. Stress | Elongation | Gauge Length | %age Elongation | Reduction of Area (%) |
|-------|----------|-----------------|------------|---------------|--------------|------------------|------------|--------------|-----------------|-----------------------|
|       | mm       | mm <sup>2</sup> | kN         | kN            | MPa          | MPa              | mm         | mm           | %               |                       |
| 1     | 25       | 491             | 193.00     | 296.50        | 393          | 604              | 40.0       | 200          | 20.0            | 41.0                  |
| 2     | 25       | 491             | 184.00     | 287.00        | 375          | 585              | 40.0       | 200          | 20.0            | 51.0                  |
| 3     | 25       | 491             | 180.00     | 285.50        | 367          | 582              | 42.5       | 200          | 21.3            | 53.7                  |

**Note:-**

**Only Three Samples  
Received and Tested**

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Test Performed By: Dr. /Engr. S. Asad Ali Gillani

Maj Adnan Khalid ®

Dy Dir MTL.

Testing of J-Bolt, Const of (U/G) External Electification works Alongwith Street Lighting System

Sec-IV,(Rahbar) DHA Ph-XI (M/S DHA-C)

Client Reference: 408/241/32/88A/Elec-36

Dated: 05-04-2022

SOM Lab Ref: CED/SOM/119(Page-2/2)

Dated: 06-04-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: J Bolt

Gauge Length: 200 mm

| S.No. | Diameter | Area            | Yield Load | Ultimate Load | Yield Stress | Ultimate. Stress | Elongation | Gauge Length | %age Elongation | Reduction of Area (%) |
|-------|----------|-----------------|------------|---------------|--------------|------------------|------------|--------------|-----------------|-----------------------|
|       | mm       | mm <sup>2</sup> | kN         | kN            | MPa          | MPa              | mm         | mm           | %               |                       |
| 1     | 25       | 491             | 169.00     | 284.50        | 344          | 580              | 37.5       | 200          | 18.8            | 52.6                  |
| 2     | 25       | 491             | 193.00     | 302.70        | 393          | 617              | 37.5       | 200          | 18.8            | 44.0                  |
| 3     | 25       | 491             | 187.00     | 286.80        | 381          | 584              | 40.0       | 200          | 20.0            | 53.2                  |

**Note:-**

**Only Three Samples  
Received and Tested**

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

