

Sub Divisional officer,

**Test Performed By:**

**Dr. /Engr. Nauman Khurram**

BSD Pattoki.(Const. Of 03-NOS Additional Class Rooms In GBH School Balloki Tehsil Pattoki)

**Client Reference:** 876/P

**SOM Lab** 454 (Page-

**Ref:** 1/1)

**Dated:** 25-05-2022

**Dated:** 08-06-2022

**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     | 1.542  | 6       | 0.759      | 0.44            | 0.453           | 11.79      | 17.99         | 59120                       | 57420                        | 90180                       | 87600                        | 1.50       | 8.0          | 18.8            |         |
| 2     | 1.518  | 6       | 0.754      | 0.44            | 0.446           | 11.72      | 17.81         | 58760                       | 57970                        | 89260                       | 88060                        | 1.60       | 8.0          | 20.0            |         |
| 3     | 0.651  | 4       | 0.493      | 0.20            | 0.191           | 5.37       | 7.95          | 59240                       | 62030                        | 87680                       | 91810                        | 1.40       | 8.0          | 17.5            |         |
| 4     | 0.653  | 4       | 0.494      | 0.20            | 0.192           | 5.45       | 8.10          | 60140                       | 62650                        | 89370                       | 93090                        | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|    |                        |  |
|----|------------------------|--|
| -- | No Bend test performed | <b>Note:-</b><br><br>Only Four 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)

Sub Divisional officer,

**Test Performed By:**

**Dr. /Engr.**

Nauman Khurram

BSD Chunian.(Re-Const.Of Dangerous Class Rooms In GGHS Kngan Pur Rehsil Chunian)

**Client Reference:** 83/CH

**SOM Lab**

455 (Page-

**Ref:**

1/1)

**Dated:** 19-05-2022

**Dated:**

08-06-2022

**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     | 1.518  | 6       | 0.754      | 0.44            | 0.446           | 11.82      | 18.14         | 59270                       | 58480                        | 90950                       | 89730                        | 1.40       | 8.0          | 17.5            |         |
| 2     | 1.515  | 6       | 0.753      | 0.44            | 0.445           | 11.74      | 18.14         | 58860                       | 58200                        | 90950                       | 89930                        | 1.20       | 8.0          | 15.0            |         |
| 3     | 0.645  | 4       | 0.492      | 0.20            | 0.190           | 5.40       | 7.95          | 59580                       | 62710                        | 87680                       | 92300                        | 1.40       | 8.0          | 17.5            |         |
| 4     | 0.642  | 4       | 0.491      | 0.20            | 0.189           | 5.56       | 8.10          | 61270                       | 64830                        | 89370                       | 94570                        | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|    |                        |  |
|----|------------------------|--|
| -- | No Bend test performed | <b>Note:-</b><br><br>Only Four 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)

Musaddiq Iqbal

**Test Performed By:**

**Dr. /Engr. Nauman Khurram**

Const. Manager, Thaheem Const. Company (Spinning Hostel Building Project At Master Textile Mills)

**Client Reference:** Nil

**SOM Lab** 456 (Page-

**Ref:** 1/1)

**Dated:** 02-06-2022

**Dated:** 08-06-2022

**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     | 0.686  | 4       | 0.507      | 0.20            | 0.202           | 6.47       | 9.30          | 71380                       | 70680                        | 102520                      | 101500                       | 1.30       | 8.0          | 16.3            |         |
| 2     | 0.684  | 4       | 0.506      | 0.20            | 0.201           | 6.42       | 9.04          | 70820                       | 70470                        | 99710                       | 99210                        | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |

**BEND TEST:**

|     |  |   |
|-----|--|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-</b><br><br>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)

UMT Lahore

Test Performed By:

Dr. /Engr.

Nauman Khurram

(Ikram Amjad Trader & Engg Works).University Of Management And Technology Lahore.

Client Reference: Nil

SOM Lab

457 (Page-

Ref:

1/1)

Dated: 08-06-2022

Dated:

08-06-2022

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     | 2.577  | 8       | 0.982      | 0.79            | 0.757           | 23.11      | 34.66         | 64520                       | 67330                        | 96760                       | 100980                       | 1.30       | 8.0          | 16.3            |         |
| 2     | 2.581  | 8       | 0.982      | 0.79            | 0.758           | 24.97      | 40.44         | 69720                       | 72670                        | 112890                      | 117660                       | 1.00       | 8.0          | 12.5            |         |
| 3     | 2.576  | 8       | 0.982      | 0.79            | 0.757           | 23.80      | 35.37         | 66450                       | 69350                        | 98750                       | 103050                       | 1.30       | 8.0          | 16.3            |         |
| 4     | 1.491  | 6       | 0.747      | 0.44            | 0.438           | 14.93      | 18.98         | 74860                       | 75200                        | 95140                       | 95570                        | 1.20       | 8.0          | 15.0            |         |
| 5     | 1.486  | 6       | 0.746      | 0.44            | 0.437           | 13.93      | 18.32         | 69850                       | 70330                        | 91820                       | 92450                        | 1.10       | 8.0          | 13.8            |         |
| 6     | 1.497  | 6       | 0.748      | 0.44            | 0.440           | 14.19      | 18.52         | 71130                       | 71130                        | 92840                       | 92840                        | 1.10       | 8.0          | 13.8            |         |
| 7     | 0.654  | 4       | 0.494      | 0.20            | 0.192           | 5.91       | 9.17          | 65200                       | 67920                        | 101170                      | 105380                       | 1.20       | 8.0          | 15.0            |         |
| 8     | 0.656  | 4       | 0.496      | 0.20            | 0.193           | 5.93       | 9.04          | 65420                       | 67800                        | 99710                       | 103320                       | 1.20       | 8.0          | 15.0            |         |
| 9     | 0.657  | 4       | 0.496      | 0.20            | 0.193           | 5.83       | 8.79          | 64300                       | 66630                        | 96900                       | 100410                       | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|            |  |
|------------|--|
| Sr # (1-3) | Sample bend through 180 degrees Satisfactorily without any crack |
| Sr # (4-6) | Sample bend through 180 degrees Satisfactorily without any crack |
| Sr # (7-9) | Sample bend through 180 degrees Satisfactorily without any crack |
|            |  |
|            |  |

**Note:-**  
  
Only Eighteen 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)

Variant  
Gulberg 2 Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: VA/29/12

SOM Lab 458 (Page-

Ref: 1/1)

Dated: 08-06-2022

Dated: 08-06-2022

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     | 2.626  | 8       | 0.991      | 0.79            | 0.772           | 25.66      | 35.19         | 71630                       | 73300                        | 98240                       | 100530                       | 1.20       | 8.0          | 15.0            |         |
| 2     | 2.635  | 8       | 0.993      | 0.79            | 0.774           | 27.14      | 33.33         | 75760                       | 77320                        | 93060                       | 94980                        | 1.30       | 8.0          | 16.3            |         |
| 3     | 0.657  | 4       | 0.496      | 0.20            | 0.193           | 5.76       | 8.23          | 63510                       | 65820                        | 90720                       | 94010                        | 1.30       | 8.0          | 16.3            |         |
| 4     | 0.669  | 4       | 0.501      | 0.20            | 0.197           | 6.09       | 8.56          | 67110                       | 68130                        | 94420                       | 95860                        | 1.20       | 8.0          | 15.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

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

Muhammad Khalid Zaman

Test Performed By:

Dr. /Engr.

Nauman Khurram

RE ECSP CM Package WASA FSD.(Const Of Disposal Station In NA-110,FSD)

Client Reference: ECSP/CM-Package-104

SOM Lab

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Ref:

1/1)

Dated: 31-06-2022

Dated:

08-06-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Farooq Supreme)

| 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     | 0.590  | 4       | 0.469      | 0.20            | 0.173           | 4.76       | 7.21          | 52500                       | 60690                        | 79470                       | 91880                        | 1.10       | 8.0          | 13.8            |         |
| 2     | 0.582  | 4       | 0.467      | 0.20            | 0.171           | 4.56       | 7.19          | 50250                       | 58770                        | 79250                       | 92690                        | 1.10       | 8.0          | 13.8            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |

**BEND TEST:**

|     |  |   |
|-----|--|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-</b><br><br>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)