Deputy Director (Tech-II) **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Project Management Unit EWR Phase-II WASA Fsd.(Const Of B/Wall Alongside The FESCO Colony)

**Client Reference:** 366/DD(Tech-II)/EWR-II/2023 **SOM Lab Ref:** 3847 (Page-1/1)

**Dated:** 27-12-2023 **Dated:** 22-03-2024

**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 | $in^2$ | $in^2$ | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 0.671 | 4 | 0.501 | 0.20 | 0.197 | 6.70 | 8.97 | 73850 | 74980 | 98920 | 100430 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| -- | No Bend test performed |
| | |
| | |
| | |
| | |

**Note:-**

Only One Sample Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engineer

ATTA Tower, Ichra Ferozpur Road, Lahore

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

**Client Reference:** Nil

**Dated:** 22-03-2024

**SOM Lab Ref:** 3848 (Page-1/1)

**Dated:** 22-03-2024

**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 | $in^2$ | $in^2$ | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 0.644 | 4 | 0.491 | 0.20 | 0.189 | 5.91 | 8.66 | 65200 | 68990 | 95550 | 101110 | 1.20 | 8.0 | 15.0 | |
| 2 | 0.673 | 4 | 0.502 | 0.20 | 0.198 | 6.09 | 8.97 | 67110 | 67790 | 98920 | 99920 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |
| | |
| | |

**Note:-**

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engineer`s Representative **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Metroplan-Asian JV Lahore.(Estb of Jinnah Instute of Cardiology at Jinnah Hospital Lahore)

**Client Reference:** Metroplan-Asian JV JIC -JHL-RE-164-2024 **SOM Lab Ref:** 3857 (Page 1/1)

**Dated:** 25-03-2024 **Dated:** 25-03-2024

**Test:** Tension Test & Bend Test **Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch **Sample Type:** M S Deformed Bar(Sheikhoo 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 | $in^2$ | $in^2$ | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 1.499 | 6 | 0.749 | 0.44 | 0.441 | 14.93 | 19.88 | 74860 | 74690 | 99640 | 99410 | 1.30 | 8.0 | 16.3 | |
| 2 | 1.496 | 6 | 0.748 | 0.44 | 0.440 | 14.73 | 19.93 | 73830 | 73830 | 99890 | 99890 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |
| | |
| | |

**Note:-**

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Bilal Safdar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Project Manager REDO Engg & Construction.(BSP Workshop Kasur)

**Client Reference:** QC/TST/2273-001 **SOM Lab Ref:** 3851 (Page 1/1)

**Dated:** 22-03-2024 **Dated:** 22-03-2024

**Test:** Tension Test & Bend Test **Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch **Sample Type:** M S 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 | $in^2$ | $in^2$ | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 0.673 | 4 | 0.502 | 0.20 | 0.198 | 6.14 | 8.07 | 67670 | 68360 | 89030 | 89930 | 1.00 | 8.0 | 12.5 | |
| 2 | 0.673 | 4 | 0.502 | 0.20 | 0.198 | 6.80 | 8.72 | 74980 | 75740 | 96110 | 97080 | 0.90 | 8.0 | 11.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |
| | |
| | |

**Note:-**

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk