Xue Feiyang, Dy Manager **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

PowerChina SEPCO1 Electric Power Constuction.Co Ltd. (500KV Nokhar Grid Station)

**Client Reference:** WB-10A-GS-SEPCP01-124 **SOM Lab Ref:** 3834(Page-1/1)

**Dated:** 19-03-2024 **Dated:** 19-03-2024

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

**Guage Length:** 200 mm **Sample Type:** MS Def 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) | | | | |
| | kg/m | mm | mm | $mm^2$ | $mm^2$ | kN | kN | MPa | MPa | MPa | MPa | mm | mm | % | |
| 1 | 0.905 | 12 | 12.10 | 113 | 115 | 52.50 | 76.00 | 465 | 457 | 673 | 661 | 35.0 | 200 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**Witnessed By:** Sohaib Ali (NESPAK)

**BEND TEST:**

| | | |
|---|---|---|
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack | **Note:-** |
| | | Only Two Samples Received and Tested |
| | | |
| | | |
| | | |

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

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

Dy Dir Dev. DHA Gujranwala.(4 Marla and 8 Marla Comm Plaza)

**Client Reference:** 111/3/DD/Dev/04 Marla Plaza/03 **SOM Lab Ref:** 3831 (Page-1/1)

**Dated:** 16-03-2024 **Dated:** 19-03-2024

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

**Gauge Length:** 8 inch **Sample Type:** 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 | 1.480 | 6 | 0.744 | 0.44 | 0.435 | 14.19 | 19.03 | 71130 | 71940 | 95400 | 96490 | 1.60 | 8.0 | 20.0 | |
| 2 | 1.478 | 6 | 0.743 | 0.44 | 0.434 | 13.91 | 18.96 | 69750 | 70710 | 95040 | 96350 | 1.50 | 8.0 | 18.8 | |
| 3 | 0.667 | 4 | 0.500 | 0.20 | 0.196 | 6.52 | 8.77 | 71940 | 73410 | 96670 | 98650 | 1.10 | 8.0 | 13.8 | |
| 4 | 0.673 | 4 | 0.502 | 0.20 | 0.198 | 6.44 | 8.77 | 71040 | 71760 | 96670 | 97650 | 1.20 | 8.0 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |
| | |

**Note:-**

Only Six Samples Received and Tested

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

Project Manager **Test Performed By:** **Dr. /Engr.** Wasim Abbas

Muhammad Tariq United Life Style Lahore.(High-rise Building Skyscapers at Johar Town Lahore)

**Client Reference:** ULS/2021/22-23-24/04 **SOM Lab Ref:** 3832 (Page-1/1)

**Dated:** 19-03-2024 **Dated:** 19-03-2024

**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 | 2.670 | 8 | 1.000 | 0.79 | 0.785 | 26.93 | 32.95 | 75190 | 75670 | 91980 | 92560 | 1.10 | 8.0 | 13.8 | |
| 2 | 2.654 | 8 | 0.997 | 0.79 | 0.780 | 26.66 | 32.28 | 74420 | 75370 | 90130 | 91280 | 1.40 | 8.0 | 17.5 | |
| 3 | 1.493 | 6 | 0.748 | 0.44 | 0.439 | 14.29 | 18.11 | 71640 | 71800 | 90800 | 91000 | 1.20 | 8.0 | 15.0 | |
| 4 | 1.485 | 6 | 0.745 | 0.44 | 0.436 | 14.55 | 17.96 | 72910 | 73580 | 90030 | 90860 | 1.50 | 8.0 | 18.8 | |
| 5 | 0.664 | 4 | 0.498 | 0.20 | 0.195 | 6.78 | 8.51 | 74750 | 76670 | 93860 | 96270 | 1.10 | 8.0 | 13.8 | |
| 6 | 0.658 | 4 | 0.496 | 0.20 | 0.193 | 6.80 | 8.51 | 74980 | 77700 | 93860 | 97270 | 1.10 | 8.0 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |

**Note:-**

Only Nine Samples Received and Tested

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

Engr. Saeed Ahmad **Test Performed By:** **Dr. /Engr.** Wasim Abbas

RE Master Consulting Engg.(Revamping of Services Hospital Lahore)

**Client Reference:** Revamping/Services/camp/19 **SOM Lab Ref:** 3833 (Page-1/1)

**Dated:** 08-03-2024 **Dated:** 19-03-2024

**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 | 1.494 | 6 | 0.748 | 0.44 | 0.439 | 14.42 | 18.91 | 72300 | 72470 | 94780 | 95000 | 1.00 | 8.0 | 12.5 | |
| 2 | 1.472 | 6 | 0.743 | 0.44 | 0.433 | 14.34 | 18.73 | 71890 | 73050 | 93860 | 95380 | 1.20 | 8.0 | 15.0 | |
| 3 | 0.644 | 4 | 0.491 | 0.20 | 0.189 | 6.42 | 8.38 | 70820 | 74940 | 92400 | 97780 | 1.10 | 8.0 | 13.8 | |
| 4 | 0.653 | 4 | 0.494 | 0.20 | 0.192 | 6.42 | 8.36 | 70820 | 73770 | 92180 | 96020 | 1.00 | 8.0 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |
| | |

**Note:-**

Only Six Samples Received and Tested

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

Sufyan Uppal, PE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Baig Constuction Co. Lahore.(Const. Of Jinnah Square Mall Raiwind Road Lahore)

**Client Reference:** ST/UET/18032024/0068 **SOM Lab Ref:** 3835 (Page-1/1)

**Dated:** 18-03-2024 **Dated:** 19-03-2024

**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 | 2.686 | 8 | 1.002 | 0.79 | 0.789 | 23.87 | 33.69 | 66650 | 66740 | 94050 | 94170 | 1.30 | 8.0 | 16.3 | |
| 2 | 2.678 | 8 | 1.001 | 0.79 | 0.787 | 23.70 | 33.51 | 66170 | 66420 | 93540 | 93900 | 1.40 | 8.0 | 17.5 | |
| 3 | 1.503 | 6 | 0.750 | 0.44 | 0.442 | 15.36 | 20.18 | 77000 | 76650 | 101170 | 100710 | 1.40 | 8.0 | 17.5 | |
| 4 | 1.507 | 6 | 0.751 | 0.44 | 0.443 | 15.85 | 21.05 | 79450 | 78920 | 105510 | 104800 | 1.50 | 8.0 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack |
| | |
| | |
| | |

**Note:-**

Only Six Samples Received and Tested

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