Kashif Shahzad
Manager-Technical Gharibwal Cement Ltd.Lahore

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

**Client Reference:** GCL/Purchase/UET/010 **Dated:** 15-08-2025
**SOM Lab Ref:** CED/SOM/1654 (Page-1/2) **Dated:** 18-08-2025
**Test:** Tension Test & Bend Test **Test Specification:** ASTM-A 615
**Sample Type:** Deformed Bar **Gauge Length:** 200 mm

| 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 | 0.868 | 12 | 11.89 | 113 | 111 | 50.20 | 80.70 | 444 | 453 | 714 | 728 | 32.5 | 200 | 16.3 | H # 128 |
| 2 | 0.865 | 12 | 11.85 | 113 | 110 | 51.00 | 80.50 | 451 | 463 | 712 | 731 | 30.0 | 200 | 15.0 | H # 128 |
| 3 | 0.881 | 12 | 11.95 | 113 | 112 | 49.70 | 77.70 | 439 | 443 | 687 | 693 | 32.5 | 200 | 16.3 | H # 129 |
| 4 | 0.875 | 12 | 11.91 | 113 | 111 | 50.50 | 77.00 | 447 | 454 | 681 | 691 | 30.0 | 200 | 15.0 | H # 129 |
| 5 | 0.877 | 12 | 11.93 | 113 | 112 | 50.20 | 77.50 | 444 | 450 | 685 | 694 | 32.5 | 200 | 16.3 | H # 623 |
| 6 | 0.843 | 12 | 11.69 | 113 | 107 | 46.80 | 73.70 | 414 | 436 | 652 | 687 | 35.0 | 200 | 17.5 | H # 623 |
| 7 | 0.875 | 12 | 11.91 | 113 | 111 | 50.70 | 78.00 | 448 | 455 | 690 | 700 | 30.0 | 200 | 15.0 | H # 624 |
| 8 | 0.869 | 12 | 11.87 | 113 | 111 | 49.50 | 76.70 | 438 | 448 | 678 | 693 | 32.5 | 200 | 16.3 | H # 624 |
| 9 | 0.862 | 12 | 11.83 | 113 | 110 | 46.80 | 72.00 | 414 | 426 | 637 | 656 | 32.5 | 200 | 16.3 | H # 625 |
| 10 | 0.870 | 12 | 11.88 | 113 | 111 | 46.90 | 73.00 | 415 | 424 | 645 | 659 | 35.0 | 200 | 17.5 | H # 625 |

**BEND TEST:**

| | |
|---|---|
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack |
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack |
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack |
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack |
| 12mm | Sample bend through 180 degrees Satisfactorily without any crack |

**Note:-**

Only Fifteen Samples Received and Tested

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

Kashif Shahzad
Manager-Technical Gharibwal Cement Ltd.Lahore

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

**Client Reference:** GCL/Purchase/UET/010 **Dated:** 15-08-2025
**SOM Lab Ref:** CED/SOM/1654 (Page-2/2) **Dated:** 18-08-2025
**Test:** Tension Test & Bend Test **Test Specification:** ASTM-A 615
**Sample Type:** Deformed Bar **Gauge Length:** 200 mm

| 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 | 4.850 | 28 | 28.05 | 616 | 618 | 285.20 | 472.50 | 463 | 462 | 767 | 765 | 27.5 | 200 | 13.8 | H # 200 |
| 2 | 4.839 | 28 | 28.02 | 616 | 616 | 283.70 | 470.50 | 461 | 461 | 764 | 764 | 35.0 | 200 | 17.5 | H # 200 |
| 3 | 4.859 | 28 | 28.07 | 616 | 619 | 266.00 | 443.70 | 432 | 430 | 721 | 717 | 37.5 | 200 | 18.8 | H # 697 |
| 4 | 4.859 | 28 | 28.07 | 616 | 619 | 267.00 | 445.70 | 434 | 432 | 724 | 721 | 37.5 | 200 | 18.8 | H # 697 |
| 5 | 4.870 | 28 | 28.10 | 616 | 620 | 264.70 | 443.70 | 430 | 427 | 721 | 716 | 30.0 | 200 | 15.0 | H # 698 |
| 6 | 4.862 | 28 | 28.08 | 616 | 619 | 269.70 | 447.50 | 438 | 436 | 727 | 723 | 35.0 | 200 | 17.5 | H # 698 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

| | |
|---|---|
| 28mm | Sample bend through 180 degrees Satisfactorily without any crack |
| 28mm | Sample bend through 180 degrees Satisfactorily without any crack |
| 28mm | 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

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

QAQC Manager Zameen Development.(Const. Of Phoenix Project by Zameen Development,Lahore)

**Client Reference:** ZD/QAQC/SS-2508-000099/Phoenix/17 **SOM Lab Ref:** 1655 (Page-1/1)

**Dated:** 18-08-2025 **Dated:** 18-08-2025

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

**Gauge Length:** 8 inch **Sample Type:** 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) | | | | |
| | lb/ft | # | in | $in^2$ | $in^2$ | Tons | Tons | psi | psi | psi | psi | in | in | % | |
| 1 | 1.537 | 6 | 0.759 | 0.44 | 0.452 | 12.30 | 19.42 | 61670 | 60040 | 97340 | 94750 | 1.60 | 8.0 | 20.0 | SS-87 |
| 2 | 1.566 | 6 | 0.765 | 0.44 | 0.460 | 12.33 | 19.93 | 61830 | 59140 | 99890 | 95550 | 1.40 | 8.0 | 17.5 | SS-87 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**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

Asim Mushtaq
GM Factory Master Offisys (Pvt) Ltd. Lahore.

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

**Client Reference:** PEMH05-010
**Dated:** 13-08-2025

**SOM Lab Ref:** 1656 (Page-1/1)
**Dated:** 18-08-2025

**Test:** Tension Test & Bend Test
**Gauge Length:** 8 inch

**Test Specification:** ASTM-A-615
**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 | 2.691 | 8 | 1.004 | 0.79 | 0.791 | 26.40 | 34.37 | 73710 | 73620 | 95960 | 95840 | 1.50 | 8.0 | 18.8 | |
| 2 | 2.691 | 8 | 1.004 | 0.79 | 0.791 | 26.40 | 34.27 | 73710 | 73620 | 95680 | 95560 | 1.50 | 8.0 | 18.8 | |
| 3 | 1.494 | 6 | 0.748 | 0.44 | 0.439 | 13.88 | 18.83 | 69590 | 69750 | 94370 | 94590 | 1.60 | 8.0 | 20.0 | |
| 4 | 1.500 | 6 | 0.749 | 0.44 | 0.441 | 13.83 | 19.29 | 69340 | 69180 | 96670 | 96450 | 1.60 | 8.0 | 20.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**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

Syed Yasir Ali Sherazi **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Director NETRACON Tech.Lhr.(132/220KV Double Circuit Gorkin Matiltan Transmission Line)

**Client Reference:** 004-LT-/NTT-HO/GMTL-01 **SOM Lab Ref:** 1657 (Page-2/2)
**Dated:** 11-08-2025 **Dated:** 18-08-2025

**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 | 2.042 | 7 | 0.874 | 0.60 | 0.600 | 18.42 | 26.63 | 67710 | 67710 | 97870 | 97870 | 1.40 | 8.0 | 17.5 | |
| 2 | 2.075 | 7 | 0.881 | 0.60 | 0.610 | 19.57 | 27.44 | 71940 | 70760 | 100870 | 99220 | 1.40 | 8.0 | 17.5 | |
| 3 | 2.040 | 7 | 0.874 | 0.60 | 0.600 | 18.30 | 26.37 | 67260 | 67260 | 96940 | 96940 | 1.50 | 8.0 | 18.8 | |
| 4 | 1.466 | 6 | 0.741 | 0.44 | 0.431 | 12.90 | 18.91 | 64640 | 65990 | 94780 | 96760 | 1.40 | 8.0 | 17.5 | |
| 5 | 1.476 | 6 | 0.743 | 0.44 | 0.434 | 13.07 | 19.03 | 65510 | 66410 | 95400 | 96710 | 1.50 | 8.0 | 18.8 | |
| 6 | 1.440 | 6 | 0.734 | 0.44 | 0.423 | 12.35 | 18.35 | 61930 | 64420 | 91970 | 95670 | 1.40 | 8.0 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**Witnessed By:** Abdul Rehman Tausif (J.E Barqaab)

**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 |
| | |
| | |
| | |

**Note:-**

Only Twelve Samples Received and Tested

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

Syed Yasir Ali Sherazi **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Director NETRACON Tech.Lhr.(132/220KV Double Circuit Gorkin Matiltan Transmission Line)

**Client Reference:** 004-LT-/NTT-HO/GMTL-01 **SOM Lab Ref:** 1657 (Page-1/2)
**Dated:** 11-08-2025 **Dated:** 18-08-2025

**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 | 3.366 | 9 | 1.122 | 1.00 | 0.989 | 28.90 | 42.83 | 63740 | 64450 | 94470 | 95520 | 1.30 | 8.0 | 16.3 | |
| 2 | 3.369 | 9 | 1.123 | 1.00 | 0.990 | 29.94 | 43.55 | 66030 | 66700 | 96040 | 97010 | 1.30 | 8.0 | 16.3 | |
| 3 | 3.370 | 9 | 1.123 | 1.00 | 0.990 | 29.17 | 42.83 | 64350 | 65000 | 94470 | 95420 | 1.40 | 8.0 | 17.5 | |
| 4 | 2.831 | 8 | 1.029 | 0.79 | 0.832 | 27.42 | 38.07 | 76550 | 72690 | 106290 | 100930 | 1.40 | 8.0 | 17.5 | |
| 5 | 2.686 | 8 | 1.002 | 0.79 | 0.789 | 23.72 | 35.12 | 66220 | 66310 | 98040 | 98160 | 1.30 | 8.0 | 16.3 | |
| 6 | 2.721 | 8 | 1.009 | 0.79 | 0.800 | 24.16 | 35.70 | 67450 | 66600 | 99660 | 98420 | 1.40 | 8.0 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**Witnessed By:** Abdul Rehman Tausif (J.E Barqaab)

**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 |
| | |
| | |
| | |

**Note:-**

Only Twelve Samples Received and Tested

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

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

GE(A)-II.(Haider Const Services,Govt Contractor,is Executing CA No.CEA-CZ-72/2025-Const of DITS Bldg Tk VT-4 Gwa)

**Client Reference:** 6000-1157/21/E-6 **SOM Lab Ref:** 1658 (Page-1/1)

**Dated:** 11-07-2025 **Dated:** 18-08-2025

**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 | 1.512 | 6 | 0.752 | 0.44 | 0.444 | 13.61 | 19.44 | 68210 | 67600 | 97440 | 96560 | 1.30 | 8.0 | 16.3 | |
| 2 | 1.508 | 6 | 0.751 | 0.44 | 0.443 | 13.56 | 19.52 | 67960 | 67500 | 97850 | 97190 | 1.40 | 8.0 | 17.5 | |
| 3 | 1.086 | 5 | 0.637 | 0.31 | 0.319 | 10.06 | 13.66 | 71580 | 69560 | 97180 | 94440 | 1.10 | 8.0 | 13.8 | |
| 4 | 1.064 | 5 | 0.631 | 0.31 | 0.313 | 8.92 | 12.90 | 63460 | 62850 | 91740 | 90860 | 1.20 | 8.0 | 15.0 | |
| 5 | 0.676 | 4 | 0.503 | 0.20 | 0.199 | 6.68 | 8.79 | 73630 | 74000 | 96900 | 97380 | 1.10 | 8.0 | 13.8 | |
| 6 | 0.673 | 4 | 0.502 | 0.20 | 0.198 | 6.54 | 8.74 | 72170 | 72900 | 96340 | 97310 | 1.30 | 8.0 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**BEND TEST:**

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

**Note:-**

Only Six Samples Received and Tested

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