

Nasir Mehmood

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

Construction Manager, Elite Engineering Pvt. Ltd., New Kot Lakhpat Gird Station Lahore.

Client Reference: EEPI/06/EL-47

SOM Lab

Ref: 2507 (Page-1/1)

Dated: 26-06-2023

Dated: 26-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Moiz 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 | 2.680 | 8 | 1.002 | 0.79 | 0.788 | 24.82 | 33.20 | 69300 | 69470 | 92690 | 92920 | 1.60 | 8.00 | 20.00 | |
| 2 | 2.677 | 8 | 1.001 | 0.79 | 0.787 | 24.62 | 33.20 | 68730 | 68990 | 92690 | 93040 | 1.60 | 8.00 | 20.00 | |
| 3 | 1.494 | 6 | 0.748 | 0.44 | 0.439 | 13.91 | 18.67 | 69750 | 69910 | 93610 | 93820 | 1.70 | 8.00 | 21.30 | |
| 4 | 1.494 | 6 | 0.748 | 0.44 | 0.439 | 13.88 | 18.76 | 69590 | 69750 | 94020 | 94230 | 1.60 | 8.00 | 20.00 | |
| 5 | 1.049 | 5 | 0.626 | 0.31 | 0.308 | 9.43 | 13.27 | 67090 | 67520 | 94420 | 95040 | 1.50 | 8.00 | 18.80 | |
| 6 | 1.048 | 5 | 0.626 | 0.31 | 0.308 | 9.45 | 13.30 | 67230 | 67670 | 94640 | 95260 | 1.50 | 8.00 | 18.80 | |
| 7 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 5.83 | 8.36 | 64300 | 65280 | 92180 | 93580 | 1.50 | 8.00 | 18.80 | |
| 8 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 5.83 | 8.36 | 64300 | 65280 | 92180 | 93580 | 1.50 | 8.00 | 18.80 | |
| 9 | 0.670 | 4 | 0.501 | 0.20 | 0.197 | 5.83 | 8.36 | 64300 | 65280 | 92180 | 93580 | 1.70 | 8.00 | 21.30 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Witnessed By: Naveed Iqbal (Q.C Inspector, Elite Company) & Karar Ahmed Jafar (NESPAK)

BEND TEST:

| | | |
|-------------|--|--|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Eighteen Samples Received and Tested |
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | |
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | |
| Sr.No.5to 9 | 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

Assistant Project Director

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

PMU-SBP Lhr.(Up-Gradation of Sports Facilities,at One UpGradation of Nishter Park Sports Complex)

Client Reference: ADP/PMU/SBP/LHR/23/547-A

SOM Lab

Ref: 2517 (Page-1/1)

Dated: 10-05-2023

Dated: 04-07-2023

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 | 1.530 | 6 | 0.757 | 0.44 | 0.450 | 11.21 | 17.76 | 56210 | 54960 | 89010 | 87030 | 1.20 | 8.00 | 15.00 | |
| 2 | 1.523 | 6 | 0.755 | 0.44 | 0.448 | 11.23 | 17.43 | 56310 | 55300 | 87370 | 85810 | 1.10 | 8.00 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

BEND TEST:

| | | |
|----|------------------------|---|
| -- | No Bend test performed | Note:- Only Two Samples Received and Tested |
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Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional officer,

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

BSD CKL.(Up-Scaling Of Blackberry &Ground Nut Research Programs For Agri-Business Promotion)

Client Reference: 609/CKL

SOM Lab

Ref: 2519 (Page-1/1)

Dated: 19-06-2023

Dated: 04-07-2023

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 | 1.515 | 6 | 0.753 | 0.44 | 0.445 | 11.47 | 16.89 | 57480 | 56840 | 84670 | 83710 | 1.50 | 8.0 | 18.8 | |
| 2 | 0.669 | 4 | 0.501 | 0.20 | 0.197 | 5.45 | 7.85 | 60140 | 61060 | 86560 | 87870 | 1.20 | 8.0 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

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|-----|--|--|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | Note:- Only Four Samples Received and Tested |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack | |
| | | |
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Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sajid Hussain Bangash

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

RE Allied Engg Consultants.(Medical Center G/Floor Slab &Beams Uni Of Chakwal Balkasar Campus)

Client Reference: AEC/UOC/2023/051

SOM Lab

Ref: 2520 (Page-1/1)

Dated: 18-06-2023

Dated: 04-07-2023

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 | 2.736 | 8 | 1.012 | 0.79 | 0.804 | 23.45 | 36.51 | 65460 | 64320 | 101940 | 100160 | 1.40 | 8.00 | 17.5 | |
| 2 | 1.491 | 6 | 0.747 | 0.44 | 0.438 | 13.00 | 19.83 | 65150 | 65450 | 99380 | 99830 | 1.50 | 8.00 | 18.8 | |
| 3 | 0.669 | 4 | 0.501 | 0.20 | 0.197 | 5.78 | 8.72 | 63740 | 64710 | 96110 | 97570 | 1.10 | 8.00 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

BEND TEST:

| | | |
|----|------------------------|---|
| -- | No Bend test performed | Note:- Only Three Samples Received and Tested |
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Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

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|---|--|--|
| | | Note:- |
| | | Only One Sample Received and Tested |
| Note: Please always confirm the results of above report on web www.uet-civil.edu.pk | | |
| | | |

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

Muhammad Saleem

C.E.O Star Engineering.

(Const Of PAF Techno Park Building Kamra)

Client Reference: SE-TP-01-R-O

Dated: 12-06-2023

SOM Lab Ref: CED/SOM/2518(Page-2/3)

Dated: 04-07-2023

Test Type: Tensile Test

Sample Type: Nut Bolts

Test Specification: ASTM – F-606

Tensile Test Results

| Sample No. | Sample Type | Tested Diameter of Rod/Bolt (mm) | Ultimate Load (kN) | Ultimate Tensile Stress (MPa) | % Enlogation |
|-------------------|--------------------|---|---------------------------|--------------------------------------|---------------------|
| 1 | Nut Bolt (20mm) | 14.0 | 127.5 | 828.7 | 30 |
| 2 | Nut Bolt (16mm) | 10.0 | 65.2 | 830.6 | 20 |

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

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

Muhammad Saleem

C.E.O Star Engineering.

(Const Of Alpha-12 Building PAF Nur Khan Base Rwp)

Client Reference: SE-A12-01-R-O

Dated: 07-06-2023

SOM Lab Ref: CED/SOM/2518(Page-3/3)

Dated: 04-07-2023

Test Type: Tensile Test

Sample Type: Nut Bolts

Test Specification: ASTM – F-606

Tensile Test Results

| Sample No. | Sample Type | Tested Diameter of Rod/Bolt (mm) | Ultimate Load (kN) | Ultimate Tensile Stress (MPa) | % Enlogation |
|------------|--------------------|----------------------------------|--------------------|-------------------------------|--------------|
| 1 | Nut Bolt (20mm) | 14.4 | 172.7 | 1061.0 | 25 |
| 2 | Nut Bolt (16mm) | 10.0 | 62.0 | 789.8 | 20 |

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