



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Project Manager
Imperium Developers
Construction of Sixty6 at Gulberg-III, Lahore

Reference # CED/TFL 4235 (Dr. Waseem Abbass)
Reference of the request letter # IMP/66/04/106

Dated: 22-11-2023
Dated: 20-11-2023

Tension Test Report (Page -1/1)

Date of Test 29-11-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kg) | Breaking Load (kg) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.369 | 3 | 0.372 | 0.11 | 0.109 | 3410 | 5170 | 68400 | 69260 | 103600 | 105100 | 1.10 | 13.8 | |
| 2 | 0.372 | 3 | 0.373 | 0.11 | 0.109 | 3360 | 4990 | 67400 | 67670 | 100000 | 100500 | 1.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Witness by M Husnain Imran (Site Engr. Imperium Developers)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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To,

Project Manager
Netracon Technologies (Pvt) Ltd
Procurement of Plant-Design, Supply, Installation, Testing and Commission of 220 kV
D/C T/B OHTL from Sheikhpura G/S to Bund Road G/S (28 km on Rail Conductor).

Reference # CED/TFL **4260** (Dr. M Kashif)

Dated: 27-11-2023

Reference of the request letter # NTT-HO/ADB301C-R/SI-007

Dated: 23-11-2023

Tension Test Report (Page # 1/1)

Date of Test 29-11-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kg) | Breaking Load (kg) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|-------------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 4.220 | 10 | 1.257 | 1.27 | 1.241 | 40400 | 53600 | 70200 | 71780 | 93100 | 95300 | 1.40 | 17.5 | Fazal Steel |
| 2 | 4.005 | 10 | 1.224 | 1.27 | 1.177 | 45600 | 59800 | 79200 | 85380 | 103800 | 112000 | 1.10 | 13.8 | |
| 3 | 4.251 | 10 | 1.261 | 1.27 | 1.250 | 44000 | 58600 | 76400 | 77610 | 101700 | 103400 | 1.40 | 17.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only three samples for tensile and three samples for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #10 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| #10 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| #10 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |

Witness by Sohaib Ali (Sub-Engr. NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Project Manager
Netracon Technologies (Pvt) Ltd
Procurement of Plant-Design, Supply, Installation, Testing and Commission of 220 kV
D/C T/B OHTL from Sheikhpura G/S to Bund Road G/S (28 km on Rail Conductor).

Reference # CED/TFL **4270** (Dr. M Kashif)

Dated: 28-11-2023

Reference of the request letter # NTT-HO/ADB301C-R/SI-008

Dated: 27-11-2023

Tension Test Report (Page # 1/1)

Date of Test 29-11-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size | | Area (in ²) | | Yield load (kg) | Breaking Load (kg) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|---|--------------------|-------------------|------------------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|-------------|
| | | Nominal (#) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.363 | 3 | 0.369 | 0.11 | 0.107 | 3210 | 4960 | 64400 | 66330 | 99400 | 102500 | 1.00 | 12.5 | Fazal Steel |
| 2 | 4.269 | 10 | 1.264 | 1.27 | 1.255 | 42400 | 56600 | 73600 | 74480 | 98300 | 99500 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and two samples for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| #10 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |

Witness by Sohaib Ali (Sub-Engr. NESPAK)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Aamir Shahzad Alvi
M/S High-Q Constructions
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL 4273 (Dr. M Kashif)
Reference of the request letter # QC/HQ/CIVIL/163

Dated: 29-11-2023
Dated: 29-11-2023

Tension Test Report (Page -1/1)

Date of Test 29-11-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size (mm) | | Area (in ²) | | Yield load (kg) | Breaking Load (kg) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|--|--------------------|---------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal | Actual | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 4.305 | 32 | 32.24 | 1.25 | 1.265 | 39600 | 55200 | 69842 | 68980 | 97355 | 96200 | 1.50 | 18.8 | |
| 2 | 4.248 | 32 | 32.03 | 1.25 | 1.249 | 39000 | 54800 | 68784 | 68840 | 96650 | 96800 | 1.50 | 18.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 32mm Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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To,
 M/S Kamboh Construction Services
 Sheikhpura

Reference # CED/TFL 4275 (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 29-11-2023
 Dated: 29-11-2023

Tension Test Report (Page -1/1)

Date of Test 29-09-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

| Sr. No. | Weight (lbs/ft) | Diameter/ Size (inch) | | Area (in ²) | | Yield load (kg) | Breaking Load (kg) | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation (inch) | % Elongation | Remarks |
|---|--------------------|-----------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|---------|
| | | Nominal | Actual | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.374 | 3 | 0.374 | 0.11 | 0.110 | 3740 | 4990 | 75000 | 74980 | 100000 | 100100 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only one sample for tensile test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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