



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

To,
M/S Defence Housing Authority.
Lahore Cantt
(Const. of 132/11.5 kV Grid Station, Sector-A, DHA Ph-VI) – (M/s Netracon)

Reference # CED/TFL **36447** (Dr. Usman Akmal)
Reference of the request letter # 408/241/Estb/Lab/824/4472

Dated: 19-05-2021
Dated: 19-05-2021

Tension Test Report (Page -1/1)

Date of Test 20-05-2021
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 | 0.376 | 3 | 0.375 | 0.11 | 0.111 | 2800 | 4300 | 56200 | 55800 | 86200 | 85700 | 1.70 | 21.3 | Fazal Steel |
| 2 | 0.376 | 3 | 0.375 | 0.11 | 0.110 | 3100 | 4900 | 62200 | 61870 | 98200 | 97800 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
 Sub Divisional Officer
 Highway Sub Division (M&R)
 Kasur
 (Special / Repair of Metalled Road from Bhuchokay Phatak to Kot Sajawal via Bhumbha Kalan,
 Maralli Uthar and Dhala Length = 27 km District Kasur)
 Reference # CED/TFL **36448** (Dr. Usman Akmal) Dated: 19-05-2021
 Reference of the request letter # 658/M&RK Dated: 26-04-2021

Tension Test Report (Page -1/1)

Date of Test 20-05-2021
 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 | 0.373 | 3 | 0.374 | 0.11 | 0.110 | 2900 | 4400 | 58200 | 58310 | 88200 | 88500 | 1.30 | 16.3 | Saeed Kasur |
| 2 | 0.381 | 3 | 0.377 | 0.11 | 0.112 | 2900 | 4500 | 58200 | 57140 | 90200 | 88700 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **36451** (Dr. Rashid Hameed)
 Reference of the request letter # ST/UET/20210520-A

Dated: 20-05-2021
 Dated: 20-05-2021

Tension Test Report (Page -1/1)

Date of Test 20-05-2021
 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 | 0.416 | 3 | 0.395 | 0.11 | 0.122 | 3600 | 5600 | 72200 | 64840 | 112300 | 100900 | 1.40 | 17.5 | Moiz Steel |
| 2 | 0.372 | 3 | 0.373 | 0.11 | 0.109 | 3200 | 5000 | 64200 | 64470 | 100200 | 100800 | 1.30 | 16.3 | |
| 3 | 0.373 | 3 | 0.374 | 0.11 | 0.110 | 3250 | 5000 | 65200 | 65350 | 100200 | 100600 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only three samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| #3 Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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