# STRUCTURAL ENGINEERING DIVISION

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

`To,
Project Engineer
Sector G, DHA Gujranwala.
(Deputy General Manager (Works) HRL,DHA Gwa)

Reference # CED/TFL **935** (Dr. Ali Ahmad) Dated: 23-02-2022
Reference of the request letter # 111/15/PE/RS/Pkg-2B/105 Dated: 22-02-2022

## Tension Test Report (Page -1/1)

Date of Test 23-02-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size | | Area ($in^2$) | | Yield load | Breaking Load | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation | % Elongation | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lbs/ft) | Nominal (#) | Actual (inch) | Nominal | Actual | (kg) | (kg) | Nominal | Actual | Nominal | Actual | (inch) | | |
| 1 | 0.367 | 3 | 0.371 | 0.11 | 0.108 | 3100 | 4600 | 62200 | 63290 | 92200 | 94000 | 1.40 | 17.5 | Batala Steel |
| 2 | 0.366 | 3 | 0.370 | 0.11 | 0.108 | 3100 | 4500 | 62200 | 63460 | 90200 | 92200 | 1.30 | 16.3 | |
| 3 | 4.187 | 10 | 1.252 | 1.27 | 1.231 | 37400 | 58000 | 65000 | 66980 | 100700 | 103900 | 1.40 | 17.5 | |
| 4 | 4.182 | 10 | 1.251 | 1.27 | 1.229 | 37400 | 58000 | 65000 | 67050 | 100700 | 104000 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| **Note: only Four samples for tensile and Two samples for bend test** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| # 3 Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
| #10 Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Witness by: Abdul Rehman (Lab. Technician)

**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,
Resident Engineer
G3 Engineering Consultants (Pvt.) Ltd.
(Const. Of DHA Newlife Residency Appartments At 273/1 Q Block Ph-1I DHA,Lahore)

Reference # CED/TFL **936** (Dr.Asad Ali Gillani) Dated: 23-02-2022
Reference of the request letter # G3/DHA-NLD/RE/033 Dated: 22-02-2022

## Tension Test Report (Page -1/1)

Date of Test 23-02-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size | | Area ($in^2$) | | Yield load | Breaking Load | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation | % Elongation | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lbs/ft) | Nominal (#) | Actual (inch) | Nominal | Actual | (kg) | (kg) | Nominal | Actual | Nominal | Actual | (inch) | | |
| 1 | 0.377 | 3 | 0.375 | 0.11 | 0.111 | 3340 | 4860 | 67000 | 66490 | 97400 | 96800 | 1.40 | 17.5 | |
| 2 | 0.384 | 3 | 0.379 | 0.11 | 0.113 | 3480 | 4960 | 69800 | 68040 | 99400 | 97000 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| **Note: only Two samples for tensile and One sample for bend test** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| # 3 Bar Bend Test Through 180º is Satisfactory | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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