# STRUCTURAL ENGINEERING DIVISION

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

To,

Manager Civil
Nishat Mills Limited
Dyeing & Finishing Plant, Lahore

Reference # CED/TFL **6225** (Dr. Asad Ali) Dated: 24-12-2024
Reference of the request letter # NDF/BGST/002 Dated: 16-12-2024

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

Date of Test 26-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Weight | Diameter/ Size (mm) | | Area ($in^2$) | | Yield load | Breaking Load | Yield Stress (psi) | | Ultimate Stress (psi) | | Elongation | % Elongation | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (lbs/ft) | Nominal | Actual | Nominal | Actual | (kg) | (kg) | Nominal | Actual | Nominal | Actual | (inch) | | |
| 1 | 0.402 | 10 | 9.85 | 0.12 | 0.118 | 3790 | 5760 | 69629 | 70740 | 105821 | 107600 | 1.10 | 13.8 | Batala Gold |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

**Note: only one sample for tensile and one sample for bend test**

Bend Test

10mm Dia Bar Bend Test Through 180º is Satisfactory

**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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Ref: CED/TFL/12/6226 Dated: 24-12-2024

Dated of Test: 25-12-2024

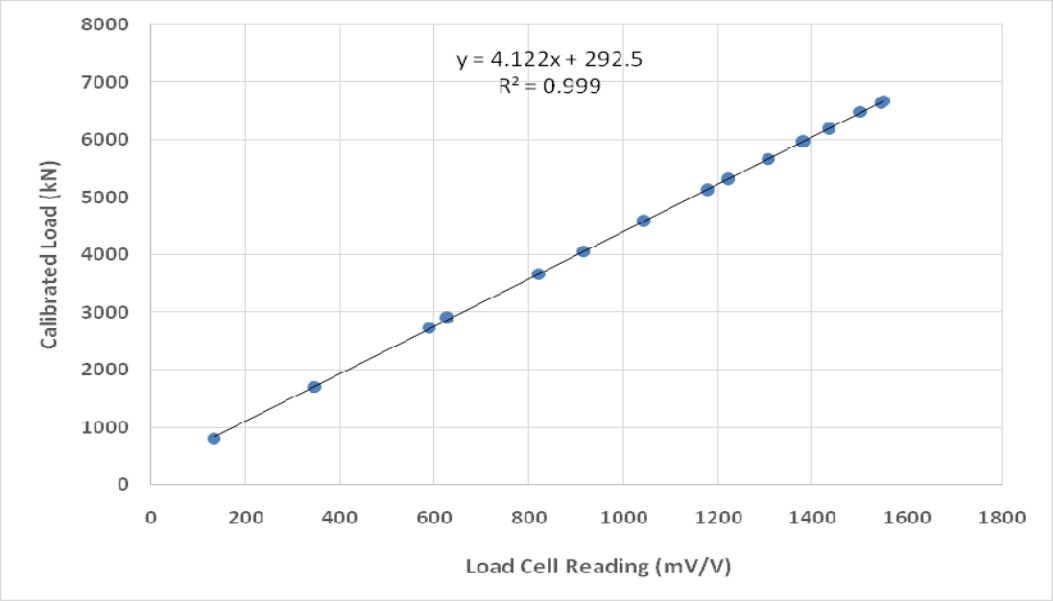
**To**

**Manager – Planning & Coordination**
**Birudo Engiineers**
**The Centaurus Mall, Tower-D at Sector F-6, Blue Area, Islamabad.**

Subject: **- CALIBRATION OF LOAD CELL 1000 Ton.** (Page -1/1)

Reference to your Letter No. BE/2024/464 dated 18/12/2024 on the subject cited above. One Load cell No. 2311207, Capacity 1000 Tons has been calibrated with Hydraulic Jack (Model-777, Capacity-1700 ton, Piston Size-561mm, Ram Area-247280.78) with Pressure Gauge No. 3305. The results are as under:

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Load Cell Reading (mV/V)** | **135.2** | **346.7** | **590.2** | **627.1** | **821** | **916.1** | **1043.7** | **1177.6** | **1221.4** | **1307.2** | **1379.5** | **1434.6** | **1500.7** | **1545.5** | **1550.3** |
| **Calibrated Pressure (bar)** | **33.3** | **69.4** | **110.8** | **118.2** | **148.5** | **164.3** | **186.0** | **207.8** | **215.5** | **229.5** | **241.8** | **251.0** | **262.8** | **269.0** | **270.0** |
| **Calibrated Load (kN)** | **823** | **1716** | **2740** | **2923** | **3672** | **4063** | **4599** | **5138** | **5329** | **5675** | **5979** | **6207** | **6499** | **6652** | **6677** |

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**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,

M Sulman
123-W Block DHA, Lahore.

Reference # CED/TFL **6227** (Dr. Asad Ali) Dated: 26-12-2024
Reference of the request letter # Nil Dated: 26-12-2024

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

Date of Test 26-12-2024
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 | 0.376 | 3 | 0.375 | 0.11 | 0.111 | 3720 | 4840 | 74600 | 74130 | 97000 | 96500 | 1.20 | 15.0 | |
| - | 0.375 | 3 | 0.375 | 0.11 | 0.110 | 3690 | 4810 | 74000 | 73820 | 96400 | 96300 | 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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