



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

To,
 Sr. Engineer (Civil) KCP (W&S)
 Pakistan Atomic Energy Commission
 Jauharabad

Reference # CED/TFL **35433** (Dr. M Rizwan Riaz)
 Reference of the request letter # KCP(W&S)-Hosp-(Hostel)/2019

Dated: 30-09-2020
 Dated: 28-09-2020

Tension Test Report (Page -1/1)

Date of Test 01-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend 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 | Heat No. |
|--|--------------------|-----------------------------|--------|----------------------------|--------|--------------------|--------------------------|-----------------------|--------|--------------------------|--------|----------------------|--------------|----------|
| | | Nominal | Actual | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.367 | 3 | 0.371 | 0.11 | 0.108 | 3200 | 4900 | 64200 | 65320 | 98200 | 100100 | 1.20 | 15.0 | 2340 |
| 2 | 0.367 | 3 | 0.371 | 0.11 | 0.108 | 3100 | 4800 | 62200 | 63280 | 96200 | 98000 | 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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I/C Testing Laboratoires
UET Lahore, Pakistan.

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
 Resident Engineer
 NESPAK Jv TurkPak
 Resident Construction Supervision for Establishment of Dera Ghazi Khan Institute of Cardiology

Reference # CED/TFL **35434** (Dr. Usman Akmal)
 Reference of the request letter # 4161/RE/SFMK/DGK/042

Dated: 30-09-2020
 Dated: 24-09-2020

Tension Test Report (Page -1/1)

Date of Test 01-10-2020
 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 | 0.380 | 3 | 0.377 | 0.11 | 0.112 | 3000 | 4900 | 60200 | 59240 | 98200 | 96800 | 1.40 | 17.5 | Fazal Steel |
| 2 | 0.376 | 3 | 0.375 | 0.11 | 0.111 | 2900 | 4900 | 58200 | 57770 | 98200 | 97700 | 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
 Oiltrade (Pvt) Ltd, Raiwind

Reference # CED/TFL **35436** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 30-09-2020
 Dated: 29-09-2020

Tension Test Report (Page -1/1)

Date of Test 01-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend 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 | 0.278 | 1/4 | 0.323 | ----- | 0.082 | 1800 | 2560 | ----- | 48490 | ----- | 69000 | 1.70 | 21.3 | |
| 2 | 0.278 | 1/4 | 0.323 | ----- | 0.082 | 2000 | 2600 | ----- | 53860 | ----- | 70100 | 1.60 | 20.0 | |
| 3 | 0.375 | 3/8 | 0.375 | 0.11 | 0.110 | 3900 | 4900 | 78200 | 77930 | 98200 | 98000 | 1.10 | 13.8 | |
| 4 | 0.379 | 3/8 | 0.377 | 0.11 | 0.111 | 4200 | 5100 | 84200 | 83140 | 102200 | 101000 | 1.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only four samples for tensile and two samples for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 1/4" Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| 3/8" Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |

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To,
 Sub Divisional Officer
 Buildings Sub Division No. 21
 Lahore
 (Construction of 02-Nos Class Room with Verandah in Govt Boys Primary School Gulwera
 Lahore. NA-134)
 Reference # CED/TFL **35437** (Dr. Usman Akmal) Dated: 30-09-2020
 Reference of the request letter # 1480/21st Dated: 19-09-2020

Tension Test Report (Page -1/1)

Date of Test 01-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend 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 | 0.380 | 3/8 | 0.377 | 0.11 | 0.112 | 3600 | 5000 | 72200 | 70980 | 100200 | 98600 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only one sample for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 3/8" Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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To,
 Material Engineer
 Unibuild Associates
 Punjab Agriculture Food and Drug Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **35438** (Dr. M Rizwan Riaz)
 Reference of the request letter # UB/PAFDA/2020/10

Dated: 30-09-2020
 Dated: 30-09-2020

Tension Test Report (Page – 1/1)

Date of Test 01-10-2020
 Gauge length 2 inches
 Description MS Grating Steel Strip Tensile Test as per ASTM A36

| Sr. No. | Designation | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|--|-------------|---------------|--------------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | (mm) | (mm) | (mm ²) | (kg) | (kg) | (MPa) | (MPa) | (in) | | |
| 1 | MS Grating | 19.70x2.10 | 41.37 | 1500 | 2000 | 355.69 | 474.26 | 0.80 | 40.00 | |
| 2 | | 19.70x2.10 | 41.37 | 1600 | 2000 | 379.41 | 474.26 | 0.60 | 30.00 | |
| . | . | . | . | . | . | . | . | . | . | |
| . | . | . | . | . | . | . | . | . | . | |
| . | . | . | . | . | . | . | . | . | . | |
| . | . | . | . | . | . | . | . | . | . | |
| Only Two Samples for Tensile Test | | | | | | | | | | |
| Bend Test | | | | | | | | | | |
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To,
M.E
AS Enterprises
Style Textile Manga / Style Textile Rewind
(AA Associates)

Reference # CED/TFL **35441** (Dr. Usman Akmal)
Reference of the request letter # USD/ASE/24

Dated: 30-09-2020
Dated: 30-09-2020

Tension Test Report (Page -1/1)

Date of Test 01-10-2020
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 | 0.427 | 10 | 10.15 | 0.12 | 0.126 | 4400 | 5400 | 80835 | 77270 | 99207 | 94900 | 1.10 | 13.8 | |
| 2 | 0.433 | 10 | 10.23 | 0.12 | 0.127 | 4400 | 5500 | 80835 | 76170 | 101044 | 95300 | 1.00 | 12.5 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples for tensile and one sample for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 10mm Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
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To,
 Manager Projects
 Ittefaq Construction Services
 Construction of Commercial Plaza (42B, 43B, 44B Sector C and 19A) Main Boulevard Bahria
 Town Lahore

Reference # CED/TFL **35445** (Dr. M Rizwan Riaz)
 Reference of the request letter # ICS/H.O/B.T.P/01

Dated: 01-10-2020
 Dated: 29-09-2020

Tension Test Report (Page -1/1)

Date of Test 01-10-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend 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 | 0.358 | 3 | 0.366 | 0.11 | 0.105 | 4000 | 4700 | 80200 | 83860 | 94200 | 98600 | 0.75 | 9.4 | |
| 2 | 0.371 | 3 | 0.373 | 0.11 | 0.109 | 4000 | 4700 | 80200 | 80860 | 94200 | 95000 | 0.70 | 8.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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