



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

To,
 Resident Engineer
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **34635** (Dr. Qasim Khan) Dated: 07-02-2020
 Reference of the request letter # DB-79/DAR/RE/ME/2020/0231 Dated: 07-02-2020

Tension Test Report (Page – 1/5)

Date of Test 17-02-2020
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile Test as per ASTM A-36

| Sr. No. | Designation | | Size of Strip | X Section Area | Yield load | Breaking Load | Yield Stress | Ultimate Stress | Elongation | % Elongation | Remarks |
|--|-----------------|------------|---------------|----------------|------------|---------------|--------------|-----------------|------------|--------------|---------|
| | | | | | | | | | | | |
| 1 | MS Angle | 5"x5"x1/2" | 27.30x12.20 | 307.71 | 9900 | 16900 | 315.62 | 538.78 | 0.60 | 30.00 | |
| 2 | | 5"x5"x1/2" | 27.30x12.20 | 307.71 | 10200 | 17000 | 325.18 | 541.97 | 0.55 | 27.50 | |
| 3 | MS Angle | 3"x3"x1/4" | 27.10x6.10 | 143.31 | 4700 | 7100 | 321.73 | 486.02 | 0.60 | 30.00 | |
| 4 | | 3"x3"x1/4" | 27.10x6.10 | 143.31 | 4600 | 7000 | 314.88 | 479.17 | 0.60 | 30.00 | |
| 5 | MS I-Beam | 8"x4" | 27.50x8.30 | 81.22 | 2900 | 4100 | 350.27 | 495.21 | 0.65 | 32.50 | |
| 6 | | 8"x4" | 27.50x8.20 | 81.22 | 3000 | 4300 | 362.35 | 519.37 | 0.60 | 30.00 | |
| 7 | Structural Pipe | 1"x2"x3mm | 17.40x3.00 | 49.68 | 1700 | 2400 | 335.69 | 473.91 | 0.60 | 30.00 | |
| 8 | | 1"x2"x3mm | 17.40x3.00 | 49.68 | 1800 | 2600 | 355.43 | 513.41 | 0.60 | 30.00 | |
| Only Ten Samples for Tensile Test | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **34635** (Dr. Qasim Khan)
Reference of the request letter # DB-79/DAR/RE/ME/2020/0231

Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 2/5)

Date of Test 17-02-2020
Gauge length -----
Description MS Angle Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | L-1 | L-2 | Thickness | Remark |
|----------------------------------|-------------|--------|--------|------------------------|--------|-------|-----------|--------|
| | (inch) | (g) | (cm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 5x5x1/2 | 14400 | 61.20 | 23.53 | 129.00 | 128.0 | 12.30 | |
| 2 | 3x3x1/4 | 4300 | 60.70 | 7.08 | 76.00 | 76.40 | 6.20 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only Two Samples for Test | | | | | | | | |
| | | | | | | | | |

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Reference of the request letter # DB-79/DAR/RE/ME/2020/0231

Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 3/5)

Date of Test 17-02-2020
Gauge length -----
Description MS I-Beam Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | Depth (d) | Flange Width (br) | Flange Thickness (tr) | Web Thickness (tw) | Remark |
|---------------------------------|-------------|--------|--------|------------------------|-----------|-------------------|-----------------------|--------------------|--------|
| | (inch) | (g) | (cm) | (kg/m) | mm | mm | mm | mm | |
| 1 | 8x4 | 17200 | 61.30 | 28.60 | 204.00 | 104.00 | 10.10 | 8.30 | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | | |
| | | | | | | | | | |

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To,
Resident Engineer
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Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

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Reference of the request letter # DB-79/DAR/RE/ME/2020/0231

Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 2/5)

Date of Test 17-02-2020
Gauge length -----
Description Structural Pipe Weight and Size Test

| Sr. No. | Designation | Weight | Length | Weight per Unit Length | Outer Dimension | | Thickness | Remark |
|---------------------------------|-------------|--------|--------|------------------------|-----------------|-------|-----------|--------|
| | | | | | X | Y | | |
| | (inch) | (g) | (cm) | (kg/m) | (mm) | (mm) | (mm) | |
| 1 | 1"x2"x3mm | 2028 | 61.50 | 3.30 | 50.20 | 25.30 | 3.00 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | | |
| | | | | | | | | |

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To,
Resident Engineer
Dar Engineering
Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **34635** (Dr. Qasim Khan)
Reference of the request letter # DB-79/DAR/RE/ME/2020/0231

Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 5/5)

Date of Test 17-02-2020
Gauge length -----
Description M.S Plate Weight and Size Test

| Sr. No. | Designation | Weight | Length | Width (b) | Weight per Unit Area | Thickness | Remark |
|---------------------------------|-------------|--------|--------|-----------|----------------------|-----------|--------|
| | (mm) | (g) | (cm) | (cm) | (kg/m ²) | (mm) | |
| 1 | 10 | 3880 | 61.50 | 78.40 | 8.05 | 10.00 | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | |
| Only One Sample for Test | | | | | | | |
| | | | | | | | |

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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer/Team Leader
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **34686** (Dr. Waseem Abbass)
 Reference of the request letter # KK-DIK—BR-PJ/2020/128

Dated: 17-02-2020
 Dated: 15-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
 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 | 4.124 | 32 | 31.55 | 1.25 | 1.212 | 38200 | 54000 | 67373 | 69460 | 95239 | 98200 | 1.50 | 18.8 | Pak Steel |
| 2 | 4.133 | 32 | 31.59 | 1.25 | 1.215 | 38000 | 53800 | 67020 | 68950 | 94886 | 97700 | 1.50 | 18.8 | |
| 3 | 4.063 | 32 | 31.32 | 1.25 | 1.194 | 41000 | 54000 | 72311 | 75670 | 95239 | 99700 | 1.40 | 17.5 | |
| 4 | 4.085 | 32 | 31.41 | 2.25 | 1.201 | 42000 | 54600 | 41153 | 77100 | 53498 | 100300 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only four samples for tensile and two samples for bend test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
| 32mm Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |
| 32mm Dia Bar Bend Test Through 180° is Satisfactory | | | | | | | | | | | | | | |

I/C Testing Laboratoires
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Senior Resident Engineer
 ProMag Pvt Ltrd
 Civil Infrastructure Works Sector-H DHA Multan

Reference # CED/TFL **34687** (Dr. Waseem Abbass)
 Reference of the request letter # CRE/Sec-H/425

Dated: 17-02-2020
 Dated: 10-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
 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 | 0.374 | 10 | 9.51 | 0.12 | 0.110 | 4100 | 5300 | 75324 | 82140 | 97370 | 106200 | 1.20 | 15.0 | SJ Steel |
| 2 | 0.370 | 10 | 9.45 | 0.12 | 0.109 | 4000 | 5200 | 73487 | 81060 | 95533 | 105400 | 0.90 | 11.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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Ref: CED/TFL/02/34688

Dated: 17-02-2020

Dated of Test : 19-02-2020

To
M/S Wellcon Engineers
Lahore

(Dualization and Improvement of Old Bannu Road Domail Khurram Road Project (P-01)(FWO)(NESPAK)

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/34688)

Reference to your Letter No. Nil, Dated: 17/02/2020 on the subject cited above. One Pressure Gauge No. 12459 (EN 837-1) as received by us has been calibrated. The results are tabulated as under:

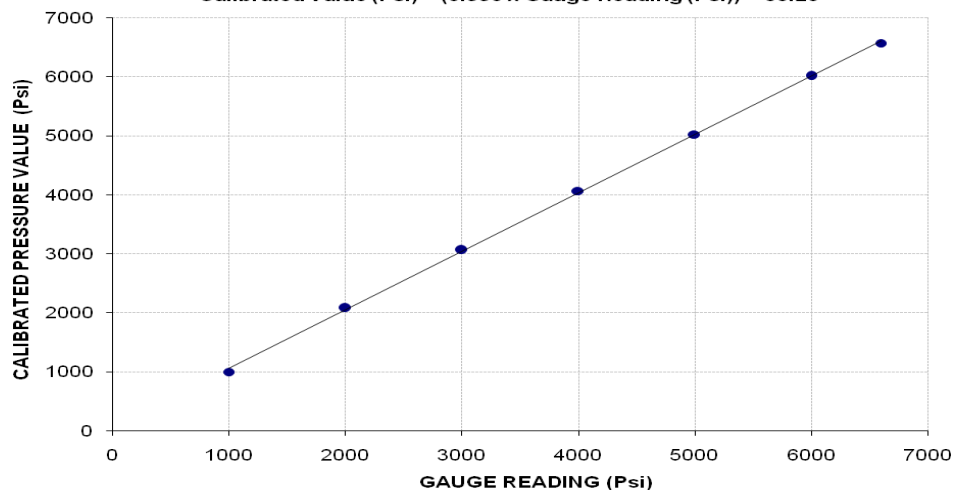
Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 6600 (Psi)

| Pressure Gauge Reading (Psi) | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 6600 |
|------------------------------|--------|---------|---------|---------|---------|---------|---------|
| Calibrated Load (kg) | 13900 | 28900 | 42600 | 56600 | 69900 | 83700 | 91400 |
| Calibrated Pressure (Psi) | 998.48 | 2075.98 | 3060.10 | 4065.77 | 5021.15 | 6012.45 | 6565.57 |

The Ram Area use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. 12459

Calibrated Value (Psi) = (0.990 × Gauge Reading (Psi)) + 65.20



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Pakistan. Ph: 92-42-99029202

To,
 Site Engineer
 Al-Karam Paper Mills (Pvt) Ltd
 Delinking Plant at SPP Al-Karam

Reference # CED/TFL **34691** (Dr. Waseem Abbass)
 Reference of the request letter # Al-Karam/NC/03/UET

Dated: 17-02-2020
 Dated: 17-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
 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 | 0.374 | 3/8 | 0.374 | 0.11 | 0.110 | 3400 | 5200 | 68200 | 68160 | 104200 | 104300 | 1.10 | 13.8 | |
| 2 | 0.376 | 3/8 | 0.375 | 0.11 | 0.110 | 3400 | 5200 | 68200 | 67860 | 104200 | 103800 | 1.20 | 15.0 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only two samples 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,
M/S Defence Housing Authority.
Lahore Cantt
(Const of Mess at OHWT Block 'B' , DHA Ph-IX (M/s Eagle)

Reference # CED/TFL **34692** (Dr. Waseem Abbass)
Reference of the request letter # 408/241/E/Lab/846/34

Dated: 17-02-2020
Dated: 17-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
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 | 0.369 | 3 | 0.372 | 0.11 | 0.109 | 3300 | 4900 | 66200 | 67040 | 98200 | 99600 | 1.30 | 16.3 | Kamran Steel |
| 2 | 0.364 | 3 | 0.369 | 0.11 | 0.107 | 3200 | 4800 | 64200 | 65980 | 96200 | 99000 | 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,
Deputy CRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project

Reference # CED/TFL **34693** (Dr. Waseem Abbass)
Reference of the request letter # LSMP/DCRE/2020/1488

Dated: 17-02-2020
Dated: 17-02-2020

Tension Test Report (Page – 1/1)

Date of Test 19-02-2020
Gauge length -----
Description Galvanized Mesh Wire & Tension Wire Tensile Test

| Sr. No. | Diameter of Single Wire | Breaking Load | Remarks |
|---------------------------|-------------------------|---------------|--------------|
| | (mm) | (kN) | |
| 1 | 3.10 | 4.14 | Mesh Wire |
| 2 | 3.10 | 4.45 | |
| 3 | 3.10 | 4.69 | |
| 4 | 3.10 | 4.73 | |
| 5 | 3.10 | 4.56 | |
| 6 | 3.10 | 4.70 | |
| 7 | 3.15 | 6.57 | Tension Wire |
| 8 | 3.15 | 6.66 | |
| 9 | 3.15 | 6.70 | |
| 10 | 3.15 | 6.33 | |
| Only Ten Samples for Test | | | |

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To,
Deputy CRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project

Reference # CED/TFL **34694** (Dr. Waseem Abbass)
Reference of the request letter # LSMP/DCRE/2020/1489

Dated: 17-02-2020
Dated: 17-02-2020

Tension Test Report (Page – 1/1)

Date of Test 19-02-2020
Gauge length -----
Description Chain Link Fence Wire Tensile Test

| Sr. No. | Diameter Wire | Breaking Load | Remarks |
|-----------------------------------|---------------|---------------|---------|
| | (mm) | (kN) | |
| 1 | 3.00 | 4.45 | |
| 2 | 3.00 | 4.72 | |
| 3 | 3.00 | 4.47 | |
| 4 | 3.00 | 4.52 | |
| - | - | - | |
| - | - | - | |
| Only Four Samples for Test | | | |

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Project Manager
 Baran Dam Consultants
 (Raising of Baran Dam, Bannu)

Reference # CED/TFL **34695** (Dr. Waseem Abbass)
 Reference of the request letter # BDC/265/2020

Dated: 18-02-2020
 Dated: 17-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
 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 (mm) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.369 | 10 | 0.372 | 0.11 | 0.108 | 3200 | 4700 | 64200 | 65020 | 94200 | 95500 | 1.30 | 16.3 | |
| 2 | 0.370 | 10 | 0.372 | 0.11 | 0.109 | 3200 | 4700 | 64200 | 64870 | 94200 | 95300 | 1.30 | 16.3 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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
 Baran Dam Consultants
 (Raising of Baran Dam, Bannu)

Reference # CED/TFL **34696** (Dr. Waseem Abbass)
 Reference of the request letter # BDC/264/2020

Dated: 18-02-2020
 Dated: 17-02-2020

Tension Test Report (Page -1/2)

Date of Test 19-02-2020
 Gauge length 8 inches
 Description Gabion Wire Tensile Test

| 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 (mm) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.064 | ---- | 0.154 | ---- | 0.019 | ---- | 615 | ----- | --- | ---- | 72400 | 0.40 | 20.0 | S# 1 |
| 2 | 0.064 | ----- | 0.154 | ----- | 0.019 | ----- | 630 | ----- | ----- | ----- | 74100 | 0.50 | 25.0 | S# 1 |
| 3 | 0.064 | ----- | 0.154 | ----- | 0.019 | ----- | 620 | ----- | ----- | ----- | 73100 | 0.40 | 20.0 | S# 2 |
| 4 | 0.062 | ----- | 0.152 | ----- | 0.018 | ----- | 600 | ----- | ----- | ----- | 72600 | 0.40 | 20.0 | S# 2 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Note: only four samples for tensile test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
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Pakistan. Ph: 92-42-99029202

To,
Project Manager
Baran Dam Consultants
(Raising of Baran Dam, Bannu)

Reference # CED/TFL **34696** (Dr. Waseem Abbass)
Reference of the request letter # BDC/264/2020

Dated: 18-02-2020
Dated: 17-02-2020

Diameter Test Report (Page -2/2)

Date of Test 19-02-2020
Gauge length 8 inches
Description Gabion Wire Dia Test

| Sr. No. | Given Dia Gabion Wire | Measured Dia Gabion Wire | Remarks |
|----------------------------|-----------------------|--------------------------|------------|
| | ---- | (mm) | |
| 1 | 8 Swg | 4 | Sample # 1 |
| 2 | 8 Swg | 4 | |
| 3 | 8 Swg | 4 | Sample # 2 |
| 4 | 8 Swg | 4 | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| Only Four Samples for Test | | | |

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Mughal Brothers
 Engineering Works

Reference # CED/TFL **34698** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 18-02-2020
 Dated: 18-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
 Gauge length 8 inches
 Description Plain Steel Bar Tensile Test

| 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 (mm) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 6.233 | -- | 1.527 | --- | 1.832 | 36200 | 55200 | --- | 43550 | --- | 66500 | 2.70 | 33.8 | |
| . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Note: only one sample for tensile test | | | | | | | | | | | | | | |
| Bend Test | | | | | | | | | | | | | | |
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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M.Adnan Afzal
Supervisor QA/QC
Redo Construction Ltd.
(Construction of filling shed in Descon Oxychem Limited(DOL) at Sheikhpura)(Mughal)

Reference # CED/TFL **34704** (Dr. Waseem Abbass)
Reference of the request letter # Redo-145-2020-003

Dated: 18-02-2020
Dated: 18-02-2020

Tension Test Report (Page -1/1)

Date of Test 19-02-2020
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 (mm) | Actual (inch) | Nominal | Actual | | | Nominal | Actual | Nominal | Actual | | | |
| 1 | 0.369 | 10 | 0.371 | 0.11 | 0.108 | 4000 | 5300 | 80200 | 81390 | 106200 | 107900 | 0.90 | 11.3 | |
| 2 | 0.360 | 10 | 0.367 | 0.11 | 0.106 | 3700 | 5000 | 74200 | 77030 | 100200 | 104100 | 1.10 | 13.8 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 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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