

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

To, M/S Gunj Bukhash Builders Lahore

| Reference # CED/TFL <b>34102</b> (Dr. M Rizwan Riaz) |  |
|--|--|
| Reference of the request letter # GBB-ET-PC-02       |  |

Dated: 30-10-2019 Dated: 30-10-2019

| <b>Tension Test Rep</b> | <b>ort</b> (Page – 1/1)                         |
|-------------------------|---|
| Date of Test            | 04-11-2019                                      |
| Gauge length            | 640 mm  |
| Description             | Steel Strand Tensile Test as per ASTM A-416-94a |

| Sr. No. | Nominal<br>Diameter | Nominal<br>Weight | Measured<br>weight | Yield st<br>clause | trength<br>e (6.3) | Brea<br>strength<br>(6. | king<br>1 clause<br>2) | Elongation | arks / Coil No. |
|---------|---------------------|-------------------|--------------------|--------------------|--------------------|-------------------------|------------------------|------------|-----------------|
|         | (mm)                | (kg/km)           | (kg/km)            | (kg)               | (kN)               | (kg)                    | (kN)                   | %          | Rem             |
| 1       | 9.53<br>(3/8")      | 432.0             | 430.0              | 9300               | 91.23              | 10400                   | 102.02                 | >3.50      | Modern          |
| 2       | 9.53<br>(3/8")      | 432.0             | 438.0              | 8700               | 85.35              | 10100                   | 99.08                  | >3.50      | United          |
| -       | -                   | -                 | -                  | -                  |                    | -                       |                        | -          | -               |
| -       | -                   | -                 | -                  | -                  |                    | -                       |                        | -          | -               |
| -       |                     |                   | -                  | -                  |                    | -                       |                        | -          | -               |
| -       | -                   | -                 | -                  | -                  |                    | -                       |                        | -          | -               |
|         |                     |                   | O                  | nly two sampl      | es for 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, Resident Engineer NESPAK – Zeeruk (Jv) China Pakistan Economic Corridor (CPEC) Western Route Hakla (on M1) to D.I. Khan Motorway – Rehmani Khel to kot Balian – Package IIA (King Konong Industries (Pvt) Ltd)

| Reference # CED/TFL 34109 (Dr. M Rizwan Riaz)                | Dated: 31-10-2019 |
|--|-------------------|
| Reference of the request letter # RE/NESPAK/P-2A/CPEC-WR/937 | Dated: 12-09-2019 |

## **Tension Test Report** (Page – 1/4)

Date of Test04-11-2019Gauge length640 mmDescriptionSteel Strand Tensile Test as per ASTM A-416-94a

| Sr. No. | Nominal<br>Diameter | Nominal<br>Weight | Measured<br>weight | Yield st<br>clause | trength<br>e (6.3) | Brea<br>strea<br>clause | king<br>ngth<br>e (6.2) | Young's<br>Modulus of<br>Elasticity<br>''E'' | Elongation | rks / Coil No. |
|---------|---------------------|-------------------|--------------------|--------------------|--------------------|-------------------------|-------------------------|--|------------|----------------|
|         | (mm)                | (kg/km)           | (kg/km)            | (kg)               | (kN)               | (kg)                    | (kN)                    | GPa  | <i>%</i>   | Rema           |
| 1       | 12.70<br>(1/2")     | 775.0             | 789.0              | 17600              | 172.66             | 19600                   | 192.28                  | 198  | >3.50      | XX             |
| 2       | 12.70<br>(1/2")     | 775.0             | 789.0              | 17100              | 167.75             | 19500                   | 191.30                  | 199  | >3.50      | XX             |
| 3       | 12.70<br>(1/2")     | 775.0             | 789.0              | 17000              | 166.77             | 19500                   | 191.30                  | 199  | >3.50      | XX             |
| -       | -                   | -                 | -                  | -                  | -                  | -                       | -                       | -  | -          | -              |
| -       | -                   | -                 | -                  | -                  | -                  | -                       | -                       | -  | -          | -              |
|         |                     |                   |                    | Only three s       | samples for        | Test                    |                         |  |            |                |

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM - A416a

2. Load versus percentage strain graphs are attached

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Note:

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To, Resident Engineer NESPAK – Zeeruk (Jv) China Pakistan Economic Corridor (CPEC) Western Route Hakla (on M1) to D.I. Khan Motorway – Rehmani Khel to kot Balian – Package IIA (King Konong Industries (Pvt) Ltd)

Reference # CED/TFL 34109 (Dr. M Rizwan Riaz)Dated: 31-10-2019Reference of the request letter # RE/NESPAK/P-2A/CPEC-WR/937Dated: 12-09-2019

Graph (Page – 2/4)



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To, Resident Engineer NESPAK – Zeeruk (Jv) China Pakistan Economic Corridor (CPEC) Western Route Hakla (on M1) to D.I. Khan Motorway – Rehmani Khel to kot Balian – Package IIA (King Konong Industries (Pvt) Ltd)

Reference # CED/TFL 34109 (Dr. M Rizwan Riaz)Dated: 31-10-2019Reference of the request letter # RE/NESPAK/P-2A/CPEC-WR/937Dated: 12-09-2019

## Graph (Page – 2/4)



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

To. **Resident Engineer** NESPAK – Zeeruk (Jv) China Pakistan Economic Corridor (CPEC) Western Route Hakla (on M1) to D.I. Khan Motorway - Rehmani Khel to kot Balian - Package IIA (King Konong Industries (Pvt) Ltd)

Reference # CED/TFL **34109** (Dr. M Rizwan Riaz) Dated: 31-10-2019 Reference of the request letter # RE/NESPAK/P-2A/CPEC-WR/937 Dated: 12-09-2019

#### Graph (Page – 4/4)



#### Stress Strain Relation -- Specimen No. W 3

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

To, Resident Engineer NESPAK Construction of Pedestrian Overhead Bridge at Shabbir Usmani Road Infront of Jinnah Hospital, Lahore

Reference # CED/TFL 34118 (Dr. M Rizwan Riaz)Dated: 01-11-2019Reference of the request letter # 4047-R/13/SNH/07/AFE/107Dated: 31-10-2019

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

Date of Test Gauge length Description

04-11-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Diamet<br>Size |                | Diameter/<br>size |           | Area<br>(in <sup>2</sup> ) |          | Area<br>(in <sup>2</sup> ) |         | Breaking<br>Load | Yield<br>(p | Stress<br>si) | Ultimat<br>(p | e Stress<br>si) | Elongation | longation | emarks |
|---------|----------------|----------------|-------------------|-----------|----------------------------|----------|----------------------------|---------|------------------|-------------|---------------|---------------|-----------------|------------|-----------|--------|
| S.      | (lbs/ft)       | Nominal<br>(#) | Actual<br>(inch)  | Nominal   | Actual                     | (kg)     | (kg)                       | Nominal | Actual           | Nominal     | Actual        | (inch)        | % E             | R          |           |        |
| 1       | 0.368          | 3              | 0.371             | 0.11      | 0.108                      | 3700     | 4800                       | 74200   | 75360            | 96200       | 97800         | 1.20          | 15.0            |            |           |        |
| 2       | 0.369          | 3              | 0.372             | 0.11      | 0.108                      | 3700     | 4800                       | 74200   | 75230            | 96200       | 97600         | 1.00          | 12.5            |            |           |        |
| -       | -              | -              | -                 | -         | -                          | -        | -                          | -       | -                | -           | -             | -             | -               |            |           |        |
| -       | -              | -              | -                 | •         | -                          | •        | -                          | -       | -                | -           | -             | -             | -               |            |           |        |
| -       | -              | -              | -                 | I         | -                          | •        | -                          | -       | -                | -           | -             | -             | -               |            |           |        |
| -       | -              | -              | -                 | -         | -                          | -        | -                          | -       | -                | -           | -             | -             | -               |            |           |        |
|         |                |                | N                 | ote: on   | ly two s                   | amples f | or tensile                 | and one | sample f         | or bend     | test          |               |                 | -          |           |        |
|         |                |                |                   |           |                            |          |                            |         |                  |             |               |               |                 |            |           |        |
|         |                |                |                   |           |                            |          | Bend T                     | est     |                  |             |               |               |                 |            |           |        |
| #3      | Bar Ben        | d Test         | Through           | n 180° is | s Satisfa                  | actory   |                            |         |                  |             |               |               |                 |            |           |        |
|         |                |                |                   |           |                            |          |                            |         |                  |             |               |               |                 |            |           |        |
|         |                |                |                   |           |                            |          |                            |         |                  |             |               |               |                 |            |           |        |

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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/S Defence Housing Authority. Lahore Cantt (Infra Dev Works IVY Green Sector-Z DHA Ph-VIII (M/s MCC Ruba)

| Reference # CED/TFL <b>34119</b> (Dr. M Rizwan Riaz)     | Dated: 01-11-2019 |
|--|-------------------|
| Reference of the request letter # 408/241/E/Lab/737/7613 | Dated: 24-10-2019 |

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

Date of Test Gauge length Description 04-11-2019 8 inches Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

| Sr. No. | Diameter/ |                | neter/<br>ze     | Aı<br>(iı | Area<br>(in <sup>2</sup> )<br>Xield load |          | Breaking<br>Load | Yield Stress<br>(psi) |          | Ultimate Stress<br>(psi) |        | Elongation | longation | emarks |
|---------|-----------|----------------|------------------|-----------|--|----------|------------------|-----------------------|----------|--------------------------|--------|------------|-----------|--------|
| S       | (lbs/ft)  | Nominal<br>(#) | Actual<br>(inch) | Nominal   | Actual                                   | (kg)     | (kg)             | Nominal               | Actual   | Nominal                  | Actual | (inch)     | % E       | Re     |
| 1       | 0.371     | 3              | 0.373            | 0.11      | 0.109                                    | 3300     | 5100             | 66200                 | 66680    | 102200                   | 103100 | 1.10       | 13.8      | el     |
| 2       | 0.369     | 3              | 0.372            | 0.11      | 0.108                                    | 3300     | 5000             | 66200                 | 67100    | 100200                   | 101700 | 1.10       | 13.8      | ty Ste |
| -       | -         | -              | -                | -         | -  | -        | -                | -                     | -        | -                        | -      | -          | -         | ĊĨ     |
| -       | -         | -              | -                | -         | -  | -        | -                | -                     | -        | -                        | -      | -          | -         |        |
| -       | -         | -              | -                | -         | -  | -        | -                | -                     | -        | -                        | -      | -          | -         |        |
| -       | -         | -              | -                | -         | -  | -        | -                | -                     | -        | -                        | -      | -          | -         |        |
|         |           |                | N                | ote: on   | ly two s                                 | amples f | or tensile       | and one               | sample f | or bend                  | test   |            |           |        |
|         |           |                |                  |           |  |          |                  |                       |          |                          |        |            |           |        |
|         |           |                |                  |           |  |          | Bend T           | 'est                  |          |                          |        |            |           |        |
| #3      | Bar Ben   | d Test         | Through          | n 180° is | s Satisfa                                | actory   |                  |                       |          |                          |        |            |           |        |
|         |           |                |                  |           |  |          |                  |                       |          |                          |        |            |           |        |
|         |           |                |                  |           |  |          |                  |                       |          |                          |        |            |           |        |

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To, Project Manager Icon Developers Residence 34-D1 Gulberg2, Lahore (AFCO)

Reference # CED/TFL **34120** (Dr. M Rizwan Riaz) Reference of the request letter # Nil Dated: 01-11-2019 Dated: 01-11-2019

| <b>Tension Test Rep</b> | ort (Page -1/1)   |
|-------------------------|---|
| Date of Test            | 04-11-2019  |
| Gauge length            | 8 inches  |
| Description             | Deformed Steel Bar Tensile and Bend Test as per ASTM-A615 |
|                         |   |

| ir. No. | ti Diam<br>Siz<br>Siz<br>(ind |         | neter/ Ai<br>ize (i<br>ich) |         | Area<br>(in²) |            | Breaking<br>Load | Yield Stress<br>(psi) |          | Ultimate Stress<br>(psi) |        | Elongation | longation | emarks |
|---------|-------------------------------|---------|-----------------------------|---------|---------------|------------|------------------|-----------------------|----------|--------------------------|--------|------------|-----------|--------|
| S       | (lbs/ft)                      | Nominal | Actual                      | Nominal | Actual        | (kg)       | (kg)             | Nominal               | Actual   | Nominal                  | Actual | (inch)     | % E       | R      |
| 1       | 0.385                         | 3/8     | 0.380                       | 0.11    | 0.113         | 3100       | 4900             | 62200                 | 60320    | 98200                    | 95400  | 1.40       | 17.5      |        |
| 2       | 0.385                         | 3/8     | 0.380                       | 0.11    | 0.113         | 3100       | 4900             | 62200                 | 60360    | 98200                    | 95500  | 1.30       | 16.3      |        |
| -       | -                             | -       | -                           | -       | -             | -          | -                | -                     | -        | -                        | -      | -          | -         |        |
| -       | -                             | -       | -                           | -       | -             | -          | -                | -                     | -        | -                        | -      | -          | -         |        |
| -       | -                             | -       | -                           | -       | -             | -          | -                | -                     | -        | -                        | -      | -          | -         |        |
| -       | -                             | -       | -                           | -       | -             | -          | -                | -                     | -        | -                        | -      | -          | -         |        |
|         |                               |         | N                           | ote: on | ly two s      | amples f   | or tensile       | and one               | sample f | or bend                  | test   |            |           |        |
|         |                               |         |                             |         |               |            |                  |                       |          |                          |        |            |           |        |
|         |                               |         |                             |         |               |            | Bend T           | est                   |          |                          |        |            |           |        |
| 3/8     | " Dia Ba                      | r Bend  | Test Th                     | rough   | 180° is \$    | Satisfacto | ry               |                       |          |                          |        |            |           |        |
|         |                               |         |                             |         |               |            |                  |                       |          |                          |        |            |           |        |
|         |                               |         |                             |         |               |            |                  |                       |          |                          |        |            |           |        |

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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/S SMK Property(Pvt) Ltd Lahore

Reference # CED/TFL **34121** (Dr. M Rizwan Riaz) Reference of the request letter # Nil Dated: 01-11-2019 Dated: 01-11-2019

# Tension Test Report(Page -1/1)Date of Test04-11-2019Gauge length8 inchesDescriptionDeformed Steel Bar Tensile and Bend Test as per ASTM-A615

| ir. No. | tu<br>inch)<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>inch<br>tu<br>tu<br>tu<br>tu<br>tu<br>tu<br>tu<br>tu<br>tu<br>tu |         | Area<br>(in <sup>2</sup> ) |         | Yield load | Breaking<br>Load | Breaking<br>Breaking<br>(psi) |         | Ultimat<br>(p | Ultimate Stress<br>(psi) |        | longation | emarks |   |
|---------|---|---------|----------------------------|---------|------------|------------------|-------------------------------|---------|---------------|--------------------------|--------|-----------|--------|---|
| S       | (lbs/ft)  | Nominal | Actual                     | Nominal | Actual     | (kg)             | (kg)                          | Nominal | Actual        | Nominal                  | Actual | (inch)    | 3 %    | R |
| 1       | 0.379   | 3/8     | 0.377                      | 0.11    | 0.111      | 3600             | 4800                          | 72200   | 71190         | 96200                    | 95000  | 1.30      | 16.3   |   |
| -       | -   | -       | -                          | -       | -          | •                | -                             | -       | -             | -                        | -      | -         | -      |   |
| -       | -   | -       | -                          | -       | -          | •                | -                             | -       | -             | -                        | -      | -         | -      |   |
| -       | -   | -       | -                          | -       | -          | -                | -                             | -       | -             | -                        | -      | -         | -      |   |
| -       | -   | -       | -                          | -       | -          | •                | -                             | -       | -             | -                        | -      | -         | -      |   |
| -       | -   | -       | -                          | -       | -          | -                | -                             | -       | -             | -                        | -      | -         | -      |   |
|         |   |         | N                          | ote: on | ly one s   | sample fo        | or tensile                    | and one | sample fo     | or bend t                | est    | 1         | r      |   |
|         |   |         |                            |         |            |                  |                               |         |               |                          |        |           |        |   |
|         |   |         |                            |         |            |                  | Bend T                        | 'est    |               |                          |        |           |        |   |
| 3/8     | " Dia Ba  | ar Bend | Test Tl                    | nrough  | 180° is \$ | Satisfacto       | ory                           |         |               |                          |        |           |        |   |
|         |   |         |                            |         |            |                  |                               |         |               |                          |        |           |        |   |
|         |   |         |                            |         |            |                  |                               |         |               |                          |        |           |        |   |

## Ref: CED/TFL/11/34122

Dated: 01-11-19

I/C Testing Laboratoires UET Lahore, Pakistan.

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

Dated of Test: <u>04-11-19</u>

To, Chief Resident Engineer Osmani & Company Swat Motorway Project

#### Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/34122) (Page -1/1)

Reference to your Letter No. 341/CRE/QAT/SMP/2019, Dated: 01/11/2019 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

| Total Range<br>Calibrated Range | : | Z<br>Z | Lero -<br>Lero - | 1 | .0 (bar)<br>9 (bar) |  |
|---------------------------------|---|--------|------------------|---|---------------------|--|
|                                 |   |        |                  |   |                     |  |

| Pressure Gauge Reading (bar) | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |
|------------------------------|------|------|------|------|------|------|------|------|------|
| Calibrated Load (kg)         | 160  | 340  | 540  | 760  | 940  | 1160 | 1340 | 1540 | 1730 |
| Calibrated Pressure (bar)    | 0.79 | 1.68 | 2.67 | 3.76 | 4.66 | 5.75 | 6.64 | 7.63 | 8.57 |

The Ram Are use for Calibration =  $198 \text{ cm}^2$ 

#### **Calibration Cure for Pressure Gauge** Calibrated Value (bar) = (0.980 x Gauge Reading (bar)) - 0.220 9 8 CALIBRATED PRESSURE VALUE (bar) 7 6 5 4 3 2 1 0 0 2 6 7 8 1 3 5 9 4 GAUGE READING (bar)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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