

Asif Pervaiz Butt  
PM, Pace Cercle, Lahore

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: nil  
Dated: 17-05-2019

SOM Lab  
Ref: 835(Page-1/1)  
Dated: 17-05-2019

Test: Tension Test & Bend Test Test Specification:

ASTM-A-615  
Deformed  
Bar

Gauge Length: 8 inch Sample Type:

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 2.586  | 8       | 0.984      | 0.79            | 0.760           | 24.82      | 32.49         | 69300                       | 72030                        | 90700                       | 94280                        | 1.30       | 8.0          | 16.3            |         |
| 2     | 2.591  | 8       | 0.984      | 0.79            | 0.761           | 24.43      | 33.59         | 68220                       | 70820                        | 93770                       | 97340                        | 1.40       | 8.0          | 17.5            |         |
| 3     | 0.651  | 4       | 0.493      | 0.20            | 0.191           | 5.78       | 8.07          | 63740                       | 66740                        | 89030                       | 93220                        | 1.40       | 8.0          | 17.5            |         |
| 4     | 0.647  | 4       | 0.492      | 0.20            | 0.190           | 5.98       | 8.51          | 65990                       | 69460                        | 93860                       | 98800                        | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |                                                                  |                                                                 |
|-----|------------------------------------------------------------------|-----------------------------------------------------------------|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-<br/><br/>Only Six Samples<br/>Received and Tested</b> |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |                                                                 |
|     |                                                                  |                                                                 |
|     |                                                                  |                                                                 |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Syed Muhammad Ali

Test Performed By: Dr. /Engr.

Nauman  
Khorram

Latitude Salutions ( Bank Al- Habib Branch Building at Zahir Pir Reahim Yar Khan)

Client Reference: nil

SOM Lab

Ref: 836(Page-1/1)

Dated: 17-05-2019

Dated: 17-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar(

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 1.518  | 6       | 0.754      | 0.44            | 0.446           | 16.16      | 21.17         | 80990                       | 79900                        | 106130                      | 104700                       | 1.40       | 8.0          | 17.5            |         |
| 2     | 1.522  | 6       | 0.754      | 0.44            | 0.447           | 16.43      | 19.88         | 82370                       | 81080                        | 99640                       | 98080                        | 1.30       | 8.0          | 16.3            |         |
| 3     | 0.662  | 4       | 0.498      | 0.20            | 0.195           | 7.10       | 8.94          | 78350                       | 80360                        | 98580                       | 101110                       | 1.10       | 8.0          | 13.8            |         |
| 4     | 0.661  | 4       | 0.497      | 0.20            | 0.194           | 7.29       | 8.97          | 80370                       | 82860                        | 98920                       | 101980                       | 1.10       | 8.0          | 13.8            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |                                                                  |                                                                  |
|-----|------------------------------------------------------------------|------------------------------------------------------------------|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-</b><br><br><b>Only Six Samples Received and Tested</b> |
| # 4 | Sample bend through 180 degrees Satisfactorily without any crack |                                                                  |
|     |                                                                  |                                                                  |
|     |                                                                  |                                                                  |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Aftab Ahmed  
Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road,  
Lahore Cantt

Test Performed By:

Dr. /Engr.

M Irfan UI  
Hassan

Client Reference: 410/6/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 837(Page-1/2)

Dated: 16-05-2019

Dated: 17-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF Steel)

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 1.459  | 6       | 0.739      | 0.44            | 0.429           | 12.79      | 18.50         | 64130                       | 65770                        | 92740                       | 95120                        | 1.40       | 8.0          | 17.5            |         |
| 2     | 1.453  | 6       | 0.737      | 0.44            | 0.427           | 12.84      | 18.40         | 64380                       | 66340                        | 92230                       | 95040                        | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |

**BEND TEST:**

|     |                                                                  |                                                                    |
|-----|------------------------------------------------------------------|--------------------------------------------------------------------|
| # 6 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-</b><br><br><b>Only Three Samples Received and Tested</b> |
|     |                                                                  |                                                                    |
|     |                                                                  |                                                                    |
|     |                                                                  |                                                                    |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Aftab Ahmed

Resident Engineer, Amad Anwar & Partners, Office # 12, 2nd Floor, Divine Center, New Airport Road, Lahore Cantt

Test Performed By:

Dr. /Engr.

M Irfan UI Hassan

Client Reference: 410/8/Business Hub/Ph-VIII/M&F

SOM Lab Ref: 837(Page-2/2)

Dated: 16-05-2019

Dated: 17-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF Steel)

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 2.603  | 8       | 0.987      | 0.79            | 0.765           | 24.18      | 32.84         | 67500                       | 69710                        | 91690                       | 94690                        | 1.30       | 8.0          | 16.3            |         |
| 2     | 2.600  | 8       | 0.986      | 0.79            | 0.764           | 24.49      | 33.18         | 68360                       | 70680                        | 92630                       | 95780                        | 1.20       | 8.0          | 15.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |                                                                  |
|-----|------------------------------------------------------------------|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack |
|     |                                                                  |
|     |                                                                  |
|     |                                                                  |

**Note:-**

**Only Three Samples Received and Tested**

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Christian Fellowship of  
Pakistan  
Lahore

Test Performed By: Dr. /Engr. M. Irfan ul Hassan

Client Reference: nil  
Dated: 17-05-2019

SOM Lab  
Ref: 838(Page-1/1)  
Dated: 17-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615  
Deformed  
Bar

Gauge Length: 8 inch

Sample Type:

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 2.612  | 8       | 0.989      | 0.79            | 0.768           | 29.77      | 38.35         | 83100                       | 85480                        | 107060                      | 110130                       | 1.30       | 8.0          | 16.3            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|     |                                                                  |                                                            |
|-----|------------------------------------------------------------------|------------------------------------------------------------|
| # 8 | Sample bend through 180 degrees Satisfactorily without any crack | <b>Note:-<br/>Only Two Samples<br/>Received and Tested</b> |
|     |                                                                  |                                                            |
|     |                                                                  |                                                            |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Ibad Ur Rehman Mudassir  
Sr. Engineer (Civil) For Managing Director, Sui Northern Gas Pipelines Ltd. Lahore

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: CC/64/L.A/8-Rooms

SOM Lab

Ref: 839(Page-1/1)

Dated: 17-05-2019

Dated: 17-05-2019

Test: Tension Test

Test Specification:

ASTM-A-615

Deformed

Gauge Length: 8 inch

Sample Type:

Bar

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 1.476  | 6       | 0.743      | 0.44            | 0.434           | 19.11      | 22.73         | 95800                       | 97130                        | 113940                      | 115520                       | 1.00       | 8.0          | 12.5            |         |
| 2     | 1.483  | 6       | 0.745      | 0.44            | 0.436           | 19.19      | 22.91         | 96210                       | 97100                        | 114810                      | 115860                       | 1.00       | 8.0          | 12.5            |         |
| 3     | 0.659  | 4       | 0.497      | 0.20            | 0.194           | 7.08       | 8.61          | 78130                       | 80540                        | 94990                       | 97920                        | 1.10       | 8.0          | 13.8            |         |
| 4     | 0.659  | 4       | 0.497      | 0.20            | 0.194           | 7.05       | 8.63          | 77790                       | 80190                        | 95210                       | 98160                        | 1.20       | 8.0          | 15.0            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               | -       |

**BEND TEST:**

|    |                        |                                                             |
|----|------------------------|-------------------------------------------------------------|
| -- | No Bend test performed | <b>Note:-<br/>Only Four Samples<br/>Received and Tested</b> |
|    |                        |                                                             |
|    |                        |                                                             |

|  |  |
|--|--|
|  |  |
|  |  |

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Director Operations,  
The Maintainers Lahore

Test Performed By: Dr. /Engr. M. Irfan UI Hassan

Client Reference: Nil  
Dated: 17-05-2019  
Test: Tension Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 840(Page-1/1)  
Dated: 17-05-2019  
Test Specification: ASTM-A-615  
Deformed Bar  
Sample Type:

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 1.480  | 6       | 0.744      | 0.44            | 0.435           | 16.79      | 21.15         | 84160                       | 85120                        | 106020                      | 107240                       | 1.00       | 8.0          | 12.5            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

|    |                        |                                   |
|----|------------------------|-----------------------------------|
| -- | No Bend test performed | <b>Note:-<br/>Only One Sample</b> |
|    |                        |                                   |

Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Faisal Mubarik Shabbir  
Khan(Retd.)

Test Performed By: Dr. /Engr. Bilal A Khokhar

TBt, TI (M), Lieutenant Colonel, Additional Director Development, DHA Phaes-XI (Rehbar) Lahore

Client Reference: 700/3/Mosque A/Sec-I/Ph-XI/Projs/1669

SOM Lab

Ref: 841(Page-1/1)

Dated: 17-05-2019

Dated: 17-05-2019

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Saeed

Gauge Length: 8 inch

Sample Type:

Kasur)

| S.No. | Weight | Dia.    |            | Area            |                 | Yield Load | Ultimate Load | Yield Stress                |                              | Ult. Stress                 |                              | Elongation | Gauge Length | %age Elongation | Remarks |
|-------|--------|---------|------------|-----------------|-----------------|------------|---------------|-----------------------------|------------------------------|-----------------------------|------------------------------|------------|--------------|-----------------|---------|
|       |        | Nominal | Calculated | Nominal         | Calculated      |            |               | (according to nominal area) | (according to measured area) | (according to nominal area) | (according to measured area) |            |              |                 |         |
|       | lb/ft  | #       | in         | in <sup>2</sup> | in <sup>2</sup> | Tons       | Tons          | psi                         | psi                          | psi                         | psi                          | in         | in           | %               |         |
| 1     | 2.649  | 8       | 0.995      | 0.79            | 0.778           | 23.83      | 36.24         | 66540                       | 67560                        | 101170                      | 102730                       | 1.30       | 8.0          | 16.3            |         |
| 2     | 2.624  | 8       | 0.991      | 0.79            | 0.771           | 23.61      | 35.73         | 65910                       | 67540                        | 99750                       | 102200                       | 1.40       | 8.0          | 17.5            |         |
| 3     | 1.470  | 6       | 0.742      | 0.44            | 0.432           | 12.51      | 20.29         | 62700                       | 63860                        | 101680                      | 103560                       | 1.30       | 8.0          | 16.3            |         |
| 4     | 1.456  | 6       | 0.738      | 0.44            | 0.428           | 12.56      | 20.30         | 62950                       | 64720                        | 101730                      | 104580                       | 1.30       | 8.0          | 16.3            |         |
| 5     | 0.651  | 4       | 0.493      | 0.20            | 0.191           | 6.44       | 9.54          | 71040                       | 74390                        | 105220                      | 110170                       | 1.20       | 8.0          | 15.0            |         |
| 6     | 0.632  | 4       | 0.487      | 0.20            | 0.186           | 6.03       | 9.12          | 66550                       | 71560                        | 100610                      | 108180                       | 1.00       | 8.0          | 12.5            |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |
| -     | -      | -       | -          | -               | -               | -          | -             | -                           | -                            | -                           | -                            | -          | -            | -               |         |

**BEND TEST:**

# 8 Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**



|                                                                                                                                      |                                                                  |                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|
| # 6                                                                                                                                  | Sample bend through 180 degrees Satisfactorily without any crack | <b>Only Nine Samples<br/>Received and Tested</b> |
| # 4                                                                                                                                  | Sample bend through 180 degrees Satisfactorily without any crack |                                                  |
|                                                                                                                                      |                                                                  |                                                  |
|                                                                                                                                      |                                                                  |                                                  |
| <b>Note: Please always confirm the results of above report on web <a href="http://www.uet-civil.edu.pk">www.uet-civil.edu.pk</a></b> |                                                                  |                                                  |