



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

224

To: **Sub Divisional Officer**

Dr.Mazhar Saleem

**Maintenance Sub Division No.2, GOR-III, Lahore**

**Project: Construction of Multi-Storey Flats / Suites for Officers of P&D and S&GAD in GOR-III, Shadman, Lahore**

Our Ref. No. CL/CED/ 1372 Dated: 14-12-20

Your Ref. No. 275Sd/GOR-III,Lhr Dated: 02-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 07-12-20 Tested on: 11-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date*<br>/Wet Weight<br>(gms) | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|---------|
| 1       | AF    |                                       | 8.9x4.3x3.0  | 3223                 | 38.27                            | 51                             | 2990                        |         |
| 2       | AF    |                                       | 8.8x4.4x3.1  | 3212                 | 38.72                            | 39                             | 2260                        |         |
| 3       | AF    |                                       | 8.7x4.4x3.0  | 3196                 | 38.28                            | 43                             | 2520                        |         |
| 4       |       |                                       |              |                      |                                  |                                |                             |         |
| 5       |       |                                       |              |                      |                                  |                                |                             |         |
| 6       |       |                                       |              |                      |                                  |                                |                             |         |
| 7       |       |                                       |              |                      |                                  |                                |                             |         |
| 8       |       |                                       |              |                      |                                  |                                |                             |         |
| 9       |       |                                       |              |                      |                                  |                                |                             |         |
| 10      |       |                                       |              |                      |                                  |                                |                             |         |
| 11      |       |                                       |              |                      |                                  |                                |                             |         |
| 12      |       |                                       |              |                      |                                  |                                |                             |         |
| 13      |       |                                       |              |                      |                                  |                                |                             |         |
| 14      |       |                                       |              |                      |                                  |                                |                             |         |
| 15      |       |                                       |              |                      |                                  |                                |                             |         |
| 16      |       |                                       |              |                      |                                  |                                |                             |         |

Results can also be seen on website [http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6)

\* as engraved on the specimens (if any)

\*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption

\*\*\* BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

\*\*\*\* ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

232

To: **Mr. Zeshan Sab**

Dr. Mazhar Saleem

**Stallion Pharmaceuticals (Pvt.) Ltd. Lahore**

**Project: Construction of Head Office Stallion Pharma Plot # 187/5 D Phase 8 DHA Cantt Lahore**

Our Ref. No. CL/CED/ 1373 Dated: 14-12-20

Your Ref. No. Nil Dated: 09-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 09-12-20 Tested on: 11-12-20 in dry/wet condition

| Sr. No. | Mark*         | Casting Date* |     |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|---------------|---------------|-----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
|         |               | Month         | Day | Year |              |                      |                                  |                                |                             |              |
| 1       | Raft          | 21            | 10  | 2020 | 6Diax12      | 13.4                 | 28.28                            | 57                             | 4520                        | Non Engraved |
| 2       | Raft          | 21            | 10  | 2020 | 6Diax12      | 14                   | 28.28                            | 63                             | 4990                        | Non Engraved |
| 3       | Raft          | 21            | 10  | 2020 | 6Diax12      | 14                   | 28.28                            | 57                             | 4520                        | Non Engraved |
| 4       | Raft          | 21            | 10  | 2020 | 6Diax12      | 14                   | 28.28                            | 59                             | 4680                        | Non Engraved |
| 5       | Raft          | 21            | 10  | 2020 | 6Diax12      | 14                   | 28.28                            | 63                             | 4990                        | Non Engraved |
| 6       | Raft          | 21            | 10  | 2020 | 6Diax12      | 14                   | 28.28                            | 29                             | 2300                        | Non Engraved |
| 7       | Basement Wall | 12            | 11  | 2020 | 6Diax12      | 14                   | 28.28                            | 63                             | 4990                        | Non Engraved |
| 8       | Basement Wall | 12            | 11  | 2020 | 6Diax12      | 14                   | 28.28                            | 65                             | 5150                        | Non Engraved |
| 9       | Basement Wall | 12            | 11  | 2020 | 6Diax12      | 14                   | 28.28                            | 65                             | 5150                        | Non Engraved |
| 10      |               |               |     |      |              |                      |                                  |                                |                             |              |
| 11      |               |               |     |      |              |                      |                                  |                                |                             |              |
| 12      |               |               |     |      |              |                      |                                  |                                |                             |              |
| 13      |               |               |     |      |              |                      |                                  |                                |                             |              |
| 14      |               |               |     |      |              |                      |                                  |                                |                             |              |
| 15      |               |               |     |      |              |                      |                                  |                                |                             |              |
| 16      |               |               |     |      |              |                      |                                  |                                |                             |              |

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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233

To: **Muhammad Aslam (Deputy Director P&D)**

Dr. Mazhar Saleem

**National Textile University, Faisalabad**

**Project: Construction Work of Girls Hostel (G+3) for 63 Students at University**

Our Ref. No. CL/CED/ 1374 Dated: 14-12-20

Your Ref. No. NTU/G.H/C.W/20-28 Dated: 04-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 09-12-20 Tested on: 11-12-20 in dry/wet condition

| Sr. No. | Mark*           | Casting Date* |    |      | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks      |
|---------|-----------------|---------------|----|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
|         |                 | 1             | 11 | 2020 |           |                   |                            |                          |                       |              |
| 1       | Footing (1:2:4) | 1             | 11 | 2020 | 6x6x6     | 8.8               | 36                         | 69                       | 4300                  | Non Engraved |
| 2       | Footing (1:2:4) | 1             | 11 | 2020 | 6x6x6     | 9                 | 36                         | 88                       | 5480                  | Non Engraved |
| 3       | Footing (1:2:4) | 1             | 11 | 2020 | 6x6x6     | 8.8               | 36                         | 73                       | 4550                  | Non Engraved |
| 4       |                 |               |    |      |           |                   |                            |                          |                       |              |
| 5       |                 |               |    |      |           |                   |                            |                          |                       |              |
| 6       |                 |               |    |      |           |                   |                            |                          |                       |              |
| 7       |                 |               |    |      |           |                   |                            |                          |                       |              |
| 8       |                 |               |    |      |           |                   |                            |                          |                       |              |
| 9       |                 |               |    |      |           |                   |                            |                          |                       |              |
| 10      |                 |               |    |      |           |                   |                            |                          |                       |              |
| 11      |                 |               |    |      |           |                   |                            |                          |                       |              |
| 12      |                 |               |    |      |           |                   |                            |                          |                       |              |
| 13      |                 |               |    |      |           |                   |                            |                          |                       |              |
| 14      |                 |               |    |      |           |                   |                            |                          |                       |              |
| 15      |                 |               |    |      |           |                   |                            |                          |                       |              |
| 16      |                 |               |    |      |           |                   |                            |                          |                       |              |

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



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237

Dr. Mazhar Saleem

**To: Maqsood Ahmad (Project Coordinator)**  
**Banu Mukhtar Contracting (Pvt.) Ltd. Lahore**  
**Project: Novatex (Pvt.) Ltd. M3 Industrial Estate Fsd.**

Our Ref. No. CL/CED/ 1375 Dated: 14-12-20

Your Ref. No. BML/300841/003 Dated: 10-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 10-12-20 Tested on: 11-12-20 in dry/wet condition

| Sr. No. | Mark*                     | Casting Date*        |    |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|---------------------------|----------------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
|         |                           | /Wet Weight<br>(gms) |    |      |              |                      |                                  |                                |                             |              |
| 1       | Water House<br>(Pedestal) | 30                   | 11 | 2020 | 6Diax12      | 14                   | 28.28                            | 61                             | 4840                        | Non Engraved |
| 2       | Water House<br>(Pedestal) | 30                   | 11 | 2020 | 6Diax12      | 14                   | 28.28                            | 77                             | 6100                        | Non Engraved |
| 3       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 4       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 5       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 6       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 7       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 8       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 9       |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 10      |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 11      |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 12      |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 13      |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 14      |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 15      |                           |                      |    |      |              |                      |                                  |                                |                             |              |
| 16      |                           |                      |    |      |              |                      |                                  |                                |                             |              |

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



# Plain and Reinforced Concrete Laboratory

## Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

238

To: Hafiza Ozair Ahmad (Deputy Director Q.C.D)

Dr.Mazhar Saleem

WASA, LDA, Lahore / (M/s. Ahmad Ali Bhatti Construction SMS-Pvt. Ltd.)

Project: Tender No. P&S/25.01/6194 Drainage Arrangement for Sore Point at Lawrence Road and Qainchi, Lahore

Our Ref. No. CL/CED/ 1376 Dated: 14-12-20

Your Ref. No. QCD/2973-74 Dated: 09-12-20

## COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 10-12-20 Tested on: 11-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks  |
|---------|-------|---------------|-----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|----------|
|         |       | Month         | Day | Year |              |                      |                                      |                                |                             |          |
| 1       |       | 24            | 10  | 2020 | 6Diax12      | 14                   | 28.28                                | 61                             | 4840                        | Engraved |
| 2       |       | 24            | 10  | 2020 | 6Diax12      | 14                   | 28.28                                | 57                             | 4520                        | Engraved |
| 3       |       | 24            | 10  | 2020 | 6Diax12      | 14                   | 28.28                                | 65                             | 5150                        | Engraved |
| 4       |       |               |     |      |              |                      |                                      |                                |                             |          |
| 5       |       |               |     |      |              |                      |                                      |                                |                             |          |
| 6       |       |               |     |      |              |                      |                                      |                                |                             |          |
| 7       |       |               |     |      |              |                      |                                      |                                |                             |          |
| 8       |       |               |     |      |              |                      |                                      |                                |                             |          |
| 9       |       |               |     |      |              |                      |                                      |                                |                             |          |
| 10      |       |               |     |      |              |                      |                                      |                                |                             |          |
| 11      |       |               |     |      |              |                      |                                      |                                |                             |          |
| 12      |       |               |     |      |              |                      |                                      |                                |                             |          |
| 13      |       |               |     |      |              |                      |                                      |                                |                             |          |
| 14      |       |               |     |      |              |                      |                                      |                                |                             |          |
| 15      |       |               |     |      |              |                      |                                      |                                |                             |          |
| 16      |       |               |     |      |              |                      |                                      |                                |                             |          |

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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Phone Nos. 042-99029202, 042-99029217

244

Dr. Mazhar Saleem

**To: Tahir Mehmood**  
**Hasnain Builders, Lahore**  
**Project: 4th Floor Column at Old City School Gawal Mandi Lahore**

Our Ref. No. CL/CED/ 1377 Dated: 14-12-20

Your Ref. No. Nil Dated: 10-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 10-12-20 Tested on: 11-12-20 in dry/wet condition

| Sr. No. | Mark*             | Casting Date*     |    |      | Size (in) | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks      |
|---------|-------------------|-------------------|----|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
|         |                   | /Wet Weight (gms) |    |      |           |                   |                            |                          |                       |              |
| 1       | 4th Floor Columns | 2                 | 11 | 2020 | 6Diax12   | 13.4              | 28.28                      | 51                       | 4040                  | Non Engraved |
| 2       | 4th Floor Columns | 2                 | 11 | 2020 | 6Diax12   | 13.4              | 28.28                      | 61                       | 4840                  | Non Engraved |
| 3       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 4       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 5       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 6       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 7       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 8       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 9       |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 10      |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 11      |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 12      |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 13      |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 14      |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 15      |                   |                   |    |      |           |                   |                            |                          |                       |              |
| 16      |                   |                   |    |      |           |                   |                            |                          |                       |              |

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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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Phone Nos. 042-99029202, 042-99029217

257

To: **Engr. Muddasir Tahir (Construction Manager)**

Dr. Mazhar Saleem

**Zameen Aurum, Lahore**

**Project: Construction of Zameen Aurum at Plot No. 15 Block L, Gulberg-III, Main Ferozpur Road, Lahore**

Our Ref. No. CL/CED/ 1378 Dated: 14-12-20

Your Ref. No. ZD/ZA/Piling/002 Dated: 14-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 14-12-20 Tested on: 14-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|-------|---------------|-----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|--------------|
|         |       | Month         | Day | Year |              |                      |                                      |                                |                             |              |
| 1       | P-17  | 9             | 11  | 2020 | 6Diax12      | 14.6                 | 28.28                                | 71                             | 5630                        | Non Engraved |
| 2       | P-17  | 9             | 11  | 2020 | 6Diax12      | 14.4                 | 28.28                                | 67                             | 5310                        | Non Engraved |
| 3       | P-17  | 9             | 11  | 2020 | 6Diax12      | 14.5                 | 28.28                                | 67                             | 5310                        | Non Engraved |
| 4       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 5       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 6       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 7       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 8       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 9       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 10      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 11      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 12      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 13      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 14      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 15      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 16      |       |               |     |      |              |                      |                                      |                                |                             |              |

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Director/Dy. Director Concrete Laboratory



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## Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

258  
Dr. Mazhar  
Saleem

To: **Khalil Ahmad (Project Manager)**  
**SA Garden (Pvt.) Ltd. KSK**  
**Project: SA Garden Kala Shah Kaku, Phase-1**

Our Ref. No. CL/CED/ 1379 Dated: 14-12-20

Your Ref. No. SA/PM/DEV/206 Dated: 14-12-20

## COMPRESSION TEST REPORT

Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers

Specimens received on: 14-12-20 Tested on: 14-12-20 in dry/wet condition

| Sr. No. | Mark*                     | Casting Date* |     |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|---------------------------|---------------|-----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
|         |                           | Month         | Day | Year |              |                      |                                  |                                |                             |              |
| 1       | Extension Office,<br>Roof | 8             | 12  | 2020 | 6x6x6        | 8.6                  | 36                               | 45                             | 2800                        | Non Engraved |
| 2       | Extension Office,<br>Roof | 8             | 12  | 2020 | 6x6x6        | 8.8                  | 36                               | 47                             | 2930                        | Non Engraved |
| 3       | Extension Office,<br>Roof | 8             | 12  | 2020 | 6x6x6        | 8.8                  | 36                               | 57                             | 3550                        | Non Engraved |
| 4       |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 5       |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 6       |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 7       |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 8       |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 9       |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 10      |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 11      |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 12      |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 13      |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 14      |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 15      |                           |               |     |      |              |                      |                                  |                                |                             |              |
| 16      |                           |               |     |      |              |                      |                                  |                                |                             |              |

Results can also be seen on website [http://www.uet.edu.pk/faculties/facultiesinfo/departament?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/departament?RID=testing_reports&id=6)

\* as engraved on the specimens (if any)

\*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption

\*\*\* BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

\*\*\*\* ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

supervisor(lab)

Director/Dy. Director Concrete Laboratory





**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

214

Dr.Mazhar Saleem

**To: Nasir Mahmood Khan (Partner)**  
**N.A. Associates, Lahore**  
**Project: Nil**

Our Ref. No. CL/CED/ 1380 Dated: 14-12-20

Your Ref. No. NAC/20/02 Dated: 02-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 03-12-20 Tested on: 14-12-20 in dry/wet condition

| Sr. No. | Mark* | Casting Date*<br>/Wet Weight<br>(gms) | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|---------|
| 1       | NA    |                                       | 9.0x4.3x2.7  | 3412                 | 38.7                             | 57                             | 3300                        | Fly Ash |
| 2       | NA    |                                       | 9.0x4.2x2.7  | 3064                 | 37.8                             | 53                             | 3150                        | Fly Ash |
| 3       | NA    |                                       | 9.0x4.3x2.7  | 3091                 | 38.7                             | 49                             | 2840                        | Fly Ash |
| 4       | NA    |                                       | 9.0x4.3x2.8  | 3247                 | 38.7                             | 53                             | 3070                        | Fly Ash |
| 5       | NA    |                                       | 9.0x4.2x2.7  | 3081                 | 37.8                             | 53                             | 3150                        | Fly Ash |
| 6       | NA    |                                       | 9.0x4.3x2.8  | 3251                 | 38.7                             | 57                             | 3300                        | Fly Ash |
| 7       |       |                                       |              |                      |                                  |                                |                             |         |
| 8       |       |                                       |              |                      |                                  |                                |                             |         |
| 9       |       |                                       |              |                      |                                  |                                |                             |         |
| 10      |       |                                       |              |                      |                                  |                                |                             |         |
| 11      |       |                                       |              |                      |                                  |                                |                             |         |
| 12      |       |                                       |              |                      |                                  |                                |                             |         |
| 13      |       |                                       |              |                      |                                  |                                |                             |         |
| 14      |       |                                       |              |                      |                                  |                                |                             |         |
| 15      |       |                                       |              |                      |                                  |                                |                             |         |
| 16      |       |                                       |              |                      |                                  |                                |                             |         |

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\* as engraved on the specimens (if any)

\*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption

\*\*\* BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

\*\*\*\* ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

255

Dr. Mazhar Saleem

**To: Muhammad Shahbaz**  
**Imperium Hospitality (Pvt.) Ltd. Lahore**  
**Project: Nil**

Our Ref. No. CL/CED/ 1381 Dated: 14-12-20

Your Ref. No. IHPL/Con/012 Dated: 09-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 11-12-20 Tested on: 14-12-20 in dry/wet condition

| Sr. No. | Mark*    | Casting Date*       |    |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks      |
|---------|----------|---------------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
|         |          | Wet Weight<br>(gms) |    |      |              |                      |                                  |                                |                             |              |
| 1       | 4000 Psi | 3                   | 12 | 2020 | 6Diax12      | 13.4                 | 28.28                            | 55                             | 4360                        | Non Engraved |
| 2       | 4000 Psi | 3                   | 12 | 2020 | 6Diax12      | 14                   | 28.28                            | 59                             | 4680                        | Non Engraved |
| 3       | 4000 Psi | 3                   | 12 | 2020 | 6Diax12      | 14                   | 28.28                            | 57                             | 4520                        | Non Engraved |
| 4       |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 5       |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 6       |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 7       |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 8       |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 9       |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 10      |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 11      |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 12      |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 13      |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 14      |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 15      |          |                     |    |      |              |                      |                                  |                                |                             |              |
| 16      |          |                     |    |      |              |                      |                                  |                                |                             |              |

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Note: Above results pertain to the unsealed samples supplied to the laboratory

The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

256

To: **Muneeb Ur Rehman (Sr. District Engineer)**  
**Humqadam, Sialkot**

Dr.Mazhar Saleem

**Project: Retro-Fitting / Tranche-III Humqadam SCRP-Sialkot (GGPS Younas abad, 34310442)**

Our Ref. No. CL/CED/ 1382-1 of 2 Dated: 14-12-20

Your Ref. No. Nil Dated: 11-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received on: 11-12-20 Tested on: 14-12-20 in dry/wet condition

| Sr. No. | Mark*       | Casting Date* |     |      | Size (in)   | Weight (lbs./gms) | Area of X-Section (Sq. in) | Ultimate load (Tons/lbs) | Ultimate Stress (Psi) | Remarks |
|---------|-------------|---------------|-----|------|-------------|-------------------|----------------------------|--------------------------|-----------------------|---------|
|         |             | Month         | Day | Year |             |                   |                            |                          |                       |         |
| 1       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 256               | 4                          | 8.8                      | 4850                  |         |
| 2       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 261               | 4                          | 3.5                      | 1930                  |         |
| 3       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 256               | 4                          | 5.4                      | 2980                  |         |
| 4       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 258               | 4                          | 2.7                      | 1490                  |         |
| 5       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 250               | 4                          | 8                        | 4410                  |         |
| 6       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 255               | 4                          | 5                        | 2760                  |         |
| 7       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 259               | 4                          | 9.8                      | 5400                  |         |
| 8       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 260               | 4                          | 7.2                      | 3970                  |         |
| 9       | Mortar Cube | 4             | 12  | 2020 | 2.0x2.0x2.0 | 264               | 4                          | 3.6                      | 1990                  |         |
| 10      |             |               |     |      |             |                   |                            |                          |                       |         |
| 11      |             |               |     |      |             |                   |                            |                          |                       |         |
| 12      |             |               |     |      |             |                   |                            |                          |                       |         |
| 13      |             |               |     |      |             |                   |                            |                          |                       |         |
| 14      |             |               |     |      |             |                   |                            |                          |                       |         |
| 15      |             |               |     |      |             |                   |                            |                          |                       |         |
| 16      |             |               |     |      |             |                   |                            |                          |                       |         |

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Department of Civil Engineering**  
University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

256

To: **Muneeb Ur Rehman (Sr. District Engineer)**  
**Humqadam, Sialkot**

Dr. Mazhar Saleem

**Project: Retro-Fitting / Tranche-III Humqadam SCRP-Sialkot (GPS Bhabarianwala, 34330361)**

Our Ref. No.  
CL/CED/

1382-2 of 2

Dated: 14-12-20

Your Ref. No.

Nil

Dated: 11-12-20

## COMPRESSION TEST REPORT

**Concrete Cubes/Concrete Cylinders/Bricks/Cores/Tuff Tiles/Pavers**

Specimens received  
on:

11-12-20

Tested on:

14-12-20

in dry/wet condition

| Sr. No. | Mark*       | Casting Date*       |    |      | Size<br>(in) | Weight<br>(lbs./gms) | Area of<br>X-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------------|---------------------|----|------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
|         |             | Wet Weight<br>(gms) |    |      |              |                      |                                      |                                |                             |         |
| 1       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 269                  | 4                                    | 8.1                            | 4470                        |         |
| 2       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 267                  | 4                                    | 6.1                            | 3370                        |         |
| 3       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 268                  | 4                                    | 4.3                            | 2370                        |         |
| 4       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 276                  | 4                                    | 9.5                            | 5240                        |         |
| 5       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 271                  | 4                                    | 9.9                            | 5460                        |         |
| 6       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 268                  | 4                                    | 5.6                            | 3090                        |         |
| 7       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 270                  | 4                                    | 6.1                            | 3370                        |         |
| 8       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 269                  | 4                                    | 11.4                           | 6290                        |         |
| 9       | Mortar Cube | 4                   | 12 | 2020 | 2.0x2.0x2.0  | 271                  | 4                                    | 7.5                            | 4140                        |         |
| 10      |             |                     |    |      |              |                      |                                      |                                |                             |         |
| 11      |             |                     |    |      |              |                      |                                      |                                |                             |         |
| 12      |             |                     |    |      |              |                      |                                      |                                |                             |         |
| 13      |             |                     |    |      |              |                      |                                      |                                |                             |         |
| 14      |             |                     |    |      |              |                      |                                      |                                |                             |         |
| 15      |             |                     |    |      |              |                      |                                      |                                |                             |         |
| 16      |             |                     |    |      |              |                      |                                      |                                |                             |         |

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supervisor(lab)

Director/Dy. Director Concrete Laboratory