



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

210

To: **M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52738, Column / BTS PAD**

Dr. M. Yousaf

Our Ref. No. CL/CED/ 1331 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/734 Dated: 01-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 4                    | 10 | 2020 | 6x6x6        | 8.4                  | 36                               | 109                            | 6790                        | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 4                    | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 110                            | 6850                        | Non Engraved |
| 3       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 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

210

Dr. M. Yousaf

To: **M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52693, Raft Foundation**

Our Ref. No. CL/CED/ 1332 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/735 Dated: 02-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 5                 | 10 | 2020 | 6x6x6     | 8                 | 36                         | 112                      | 6970                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 5                 | 10 | 2020 | 6x6x6     | 8                 | 36                         | 100                      | 6230                  | Non Engraved |
| 3       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 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

210

Dr. M. Yousaf

To: **M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52693, Column / BTS PAD**

Our Ref. No. CL/CED/ 1333 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/736 Dated: 03-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 6                 | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 124                      | 7720                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 6                 | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 130                      | 8090                  | Non Engraved |
| 3       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 4       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 5       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 6       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 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

210

To: **M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52771, Raft Foundation**

Dr. M. Yousaf

Our Ref. No. CL/CED/ 1334 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/737 Dated: 02-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 5                 | 10 | 2020 | 6x6x6     | 8.4               | 36                         | 118                      | 7350                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 5                 | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 108                      | 6720                  | Non Engraved |
| 3       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 4       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 5       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 6       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 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

210

Dr. M. Yousaf

**To: M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52771, Column / BTS PAD**

Our Ref. No. CL/CED/ 1335 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/738 Dated: 03-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 6                    | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 113                            | 7040                        | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 6                    | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 100                            | 6230                        | Non Engraved |
| 3       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 4       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 5       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 6       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 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

210

Dr. M. Yousaf

To: **Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-42972, Raft Foundation**

Our Ref. No. CL/CED/ 1336 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/746 Dated: 02-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 5                | 10 | 2020 | 6x6x6     | 8.4               | 36                         | 123                      | 7660                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 5                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 118                      | 7350                  | Non Engraved |
| 3       |                 |                  |    |      |           |                   |                            |                          |                       |              |
| 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/departement?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

210

Dr. M. Yousaf

To: **Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-42972, Column**

Our Ref. No. CL/CED/ 1337 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/747 Dated: 04-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 7                    | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 125                            | 7780                        | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 7                    | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 136                            | 8470                        | Non Engraved |
| 3       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 4       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 5       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 6       |                 |                      |    |      |              |                      |                                  |                                |                             |              |
| 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

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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

210

Dr. M. Yousaf

To: **Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: Long Haul, Site ID-8043, ODU PAD**

Our Ref. No. CL/CED/ 1338 Dated: 07-12-20

Your Ref. No. CME/Cubes/LongHaul749 Dated: 05-10-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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      |
|---------|-----------------|---------------|---|------|-----------|-------------------|----------------------------|--------------------------|-----------------------|--------------|
|         |                 | 7             | 9 | 2020 |           |                   |                            |                          |                       |              |
| 1       | ( 1 : 1.5 : 3 ) | 7             | 9 | 2020 | 6x6x6     | 8.4               | 36                         | 110                      | 6850                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 7             | 9 | 2020 | 6x6x6     | 8.4               | 36                         | 121                      | 7530                  | Non Engraved |
| 3       |                 |               |   |      |           |                   |                            |                          |                       |              |
| 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/departement?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

210

Dr. M. Yousaf

To: **Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: Long Haul, Site ID-8624, ODU PAD**

Our Ref. No. CL/CED/ 1339 Dated: 07-12-20

Your Ref. No. CME/Cubes/LongHaul750 Dated: 18-10-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 20            | 9   | 2020 | 6x6x6     | 8.4               | 36                         | 109                      | 6790                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 20            | 9   | 2020 | 6x6x6     | 8.4               | 36                         | 124                      | 7720                  | Non Engraved |
| 3       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 4       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 5       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 6       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 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

210

Dr. M. Yousaf

To: **Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: Long Haul, Site ID-8708, ODU PAD**

Our Ref. No. CL/CED/ 1340 Dated: 07-12-20

Your Ref. No. CME/Cubes/LongHaul751 Dated: 12-10-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 14            | 9   | 2020 | 6x6x6     | 8.2               | 36                         | 130                      | 8090                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 14            | 9   | 2020 | 6x6x6     | 8.2               | 36                         | 118                      | 7350                  | Non Engraved |
| 3       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 4       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 5       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 6       |                 |               |     |      |           |                   |                            |                          |                       |              |
| 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

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Dr. M. Yousaf

To: **Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: Long Haul, Site ID-8824, ODU PAD**

Our Ref. No. CL/CED/ 1341 Dated: 07-12-20

Your Ref. No. CME/Cubes/LongHaul752 Dated: 02-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 5                 | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 124                      | 7720                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 5                 | 10 | 2020 | 6x6x6     | 8.4               | 36                         | 118                      | 7350                  | Non Engraved |
| 3       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 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/departments/testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/departments/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

210

Dr. M. Yousaf

**To: Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: Long Haul, Site ID-8528, ODU PAD / Plinth Beam**

Our Ref. No. CL/CED/ 1342 Dated: 07-12-20

Your Ref. No. CME/Cubes/LongHaul753 Dated: 29-10-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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      |
|---------|-----------------|---------------|----|------|--------------|----------------------|----------------------------------|--------------------------------|-----------------------------|--------------|
|         |                 | 1             | 10 | 2020 |              |                      |                                  |                                |                             |              |
| 1       | ( 1 : 1.5 : 3 ) | 1             | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 108                            | 6720                        | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 1             | 10 | 2020 | 6x6x6        | 8.2                  | 36                               | 120                            | 7470                        | Non Engraved |
| 3       |                 |               |    |      |              |                      |                                  |                                |                             |              |
| 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/departement?RID=testing\\_reports&id=6](http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

210

Dr. M. Yousaf

**To: Imran Akhtar (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: Long Haul, Site ID-8528, Roof Slab**

Our Ref. No. CL/CED/ 1343 Dated: 07-12-20

Your Ref. No. CME/Cubes/LongHaul/754 Dated: 03-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 6                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 124                      | 7720                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 6                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 120                      | 7470                  | Non Engraved |
| 3       |                 |                  |    |      |           |                   |                            |                          |                       |              |
| 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

210

Dr. M. Yousaf

To: **M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52772, Raft Foundation**

Our Ref. No. CL/CED/ 1344 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/755 Dated: 07-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 10                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 112                      | 6970                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 10                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 128                      | 7970                  | Non Engraved |
| 3       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 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

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Dr. M. Yousaf

To: **M Furqan (Project Manager)**  
**CM Engineering (Pvt.) Ltd. Lahore**  
**Project: CMPAK, Site ID-52772, Column / BTS PAD**

Our Ref. No. CL/CED/ 1345 Dated: 07-12-20

Your Ref. No. CME/Cubes/CMPAK/756 Dated: 09-11-20

## COMPRESSION TEST REPORT

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

Specimens received on: 02-12-20 Tested on: 04-12-20 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       | ( 1 : 1.5 : 3 ) | 12                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 128                      | 7970                  | Non Engraved |
| 2       | ( 1 : 1.5 : 3 ) | 12                | 10 | 2020 | 6x6x6     | 8.2               | 36                         | 112                      | 6970                  | Non Engraved |
| 3       |                 |                   |    |      |           |                   |                            |                          |                       |              |
| 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

218  
Dr. Mazhar  
Saleem

To: **Ammar Haider Shah (Project Manager)**  
**MINHAJ University Lahore.**  
**Project: Hostel Building**

Our Ref. No. CL/CED/ 1346-1 of 2 Dated: 07-12-20

Your Ref. No. MUL/HUB/001 Dated: 04-12-20

## COMPRESSION TEST REPORT

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

Specimens received on: 04-12-20 Tested on: 07-12-20 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       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 59                       | 4680                  | Engraved     |
| 2       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 53                       | 4200                  | Engraved     |
| 3       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 39                       | 3090                  | Non Engraved |
| 4       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14.2              | 28.28                      | 55                       | 4360                  | Engraved     |
| 5       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 23                       | 1830                  | Non Engraved |
| 6       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 27                       | 2140                  | Engraved     |
| 7       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 13                | 28.28                      | 37                       | 2940                  | Engraved     |
| 8       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 13.8              | 28.28                      | 37                       | 2940                  | Engraved     |
| 9       | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 23                       | 1830                  | Engraved     |
| 10      | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 13.4              | 28.28                      | 25                       | 1980                  | Non Engraved |
| 11      | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 33                       | 2620                  | Engraved     |
| 12      | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 13.4              | 28.28                      | 29                       | 2300                  | Engraved     |
| 13      | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 39                       | 3090                  | Engraved     |
| 14      | R.C.C Raft | 20               | 11 | 20 | 6Diax12   | 14.6              | 28.28                      | 63                       | 4990                  | Engraved     |
| 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

218

To: **Ammar Haider Shah (Project Manager)**  
**MINHAJ University Lahore.**  
**Project: Hostel Building**

Dr.Mazhar Saleem

Our Ref. No. CL/CED/ 1346-2 of 2 Dated: 07-12-20

Your Ref. No. MUL/HUB/001 Dated: 04-12-20

## COMPRESSION TEST REPORT

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

Specimens received on: 04-12-20 Tested on: 07-12-20 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) |    |    |           |                   |                            |                          |                       |              |
| 15      | R.C.C Column | 25               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 63                       | 4990                  | Non Engraved |
| 16      | R.C.C Column | 25               | 11 | 20 | 6Diax12   | 14                | 28.28                      | 41                       | 3250                  | Non Engraved |
| 17      | R.C.C Column | 25               | 11 | 20 | 6Diax12   | 13.2              | 28.28                      | 39                       | 3090                  | Non Engraved |
| 18      | R.C.C Column | 25               | 11 | 20 | 6Diax12   | 14.2              | 28.28                      | 59                       | 4680                  | Non Engraved |
| 5       |              |                  |    |    |           |                   |                            |                          |                       |              |
| 6       |              |                  |    |    |           |                   |                            |                          |                       |              |
| 7       |              |                  |    |    |           |                   |                            |                          |                       |              |
| 8       |              |                  |    |    |           |                   |                            |                          |                       |              |
| 9       |              |                  |    |    |           |                   |                            |                          |                       |              |
| 10      |              |                  |    |    |           |                   |                            |                          |                       |              |
| 11      |              |                  |    |    |           |                   |                            |                          |                       |              |
| 12      |              |                  |    |    |           |                   |                            |                          |                       |              |
| 13      |              |                  |    |    |           |                   |                            |                          |                       |              |
| 14      |              |                  |    |    |           |                   |                            |                          |                       |              |
| 15      |              |                  |    |    |           |                   |                            |                          |                       |              |
| 16      |              |                  |    |    |           |                   |                            |                          |                       |              |

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