



# Plain and Reinforced Concrete Laboratory

## Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

10646

Dr.Rizwan Azam

To: University Engineer

University of Sargodha (M/s Mumtaz Haq Nawaz, Govt. Contractor)

Project: Tuff Pavers at Different Places at Main Campus, University of Sargodha, Internal Roads of Residence Colony at Main Campus, University of Sargodha

Our Ref. No. CL/CED/ 928 Dated: 06-10-20

Your Ref. No. SU/P.D(W)/3757-20 Dated: 05-10-20

## COMPRESSION TEST REPORT

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

Specimens received on: 06-10-20 Tested on: 06-10-20 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-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|------------------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2871                 | 29.64                                | 131                            | 9900                        |         |
| 2       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2821                 | 29.64                                | 115                            | 8700                        |         |
| 3       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2789                 | 29.64                                | 145                            | 10960                       |         |
| 4       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2758                 | 29.64                                | 151                            | 11420                       |         |
| 5       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2716                 | 29.64                                | 125                            | 9450                        |         |
| 6       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2584                 | 29.64                                | 95                             | 7180                        |         |
| 7       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2832                 | 29.64                                | 129                            | 9750                        |         |
| 8       | Rectangular Grey |                                       | 7.8x3.8x2.3  | 2691                 | 29.64                                | 135                            | 10210                       |         |
| 9       | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2907                 | 29.26                                | 137                            | 10490                       |         |
| 10      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2708                 | 29.26                                | 93                             | 7120                        |         |
| 11      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2932                 | 29.26                                | 115                            | 8810                        |         |
| 12      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2617                 | 29.26                                | 97                             | 7430                        |         |
| 13      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2714                 | 29.26                                | 123                            | 9420                        |         |
| 14      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2669                 | 29.26                                | 129                            | 9880                        |         |
| 15      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2807                 | 29.26                                | 151                            | 11560                       |         |
| 16      | Rectangular Red  |                                       | 7.7x3.8x2.3  | 2785                 | 29.26                                | 113                            | 8660                        |         |

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

10606

To: **M. Sohail Anjum (Project Manager)**  
**P-156 Gulberg-II, Lahore**  
**Project: Construction of P-156 Gulberg-II, Lahore**

Dr.Mazhar Saleem

Our Ref. No. CL/CED/ 929 Dated: 06-10-20  
Your Ref. No. P-156-137 Dated: 22-09-20

## COMPRESSION TEST REPORT

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

Specimens received on: 25-09-20 Tested on: 05-10-20 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-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1       | H A   |                                       | 8.6x4.0x2.8  | 3190                 | 34.4                                 | 67                             | 4370                        |         |
| 2       | H A   |                                       | 8.8x4.3x2.9  | 3289                 | 37.84                                | 51                             | 3020                        |         |
| 3       | H A   |                                       | 8.7x4.0x2.8  | 3136                 | 34.8                                 | 45                             | 2900                        |         |
| 4       | H A   |                                       | 8.8x4.0x2.8  | 3340                 | 35.2                                 | 65                             | 4140                        |         |
| 5       | H A   |                                       | 8.7x4.0x2.7  | 3284                 | 34.8                                 | 61                             | 3930                        |         |
| 6       | H A   |                                       | 8.7x4.3x2.8  | 3391                 | 37.41                                | 49                             | 2940                        |         |
| 7       |       |                                       |              |                      |                                      |                                |                             |         |
| 8       |       |                                       |              |                      |                                      |                                |                             |         |
| 9       |       |                                       |              |                      |                                      |                                |                             |         |
| 10      |       |                                       |              |                      |                                      |                                |                             |         |
| 11      |       |                                       |              |                      |                                      |                                |                             |         |
| 12      |       |                                       |              |                      |                                      |                                |                             |         |
| 13      |       |                                       |              |                      |                                      |                                |                             |         |
| 14      |       |                                       |              |                      |                                      |                                |                             |         |
| 15      |       |                                       |              |                      |                                      |                                |                             |         |
| 16      |       |                                       |              |                      |                                      |                                |                             |         |

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\* as engraved on the specimens (if any)

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\*\*\* 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

10615

Dr.Mazhar Saleem

To: **M. Sohail Anjum (Project Manager)**  
**P-156 Gulberg-II, Lahore**  
**Project: Construction of P-156 Gulberg-II, Lahore**

Our Ref. No. CL/CED/ 930 Dated: 06-10-20

Your Ref. No. P-156-140 Dated: 28-09-20

## COMPRESSION TEST REPORT

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

Specimens received on: 28-09-20 Tested on: 05-10-20 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       | S R   |                                       | 8.9x4.2x2.7  | 2937                 | 37.38                            | 53                             | 3180                        |         |
| 2       | S R   |                                       | 8.9x4.3x3.0  | 3119                 | 38.27                            | 51                             | 2990                        |         |
| 3       | S R   |                                       | 9.0x4.4x3.0  | 3368                 | 39.6                             | 47                             | 2660                        |         |
| 4       | S R   |                                       | 8.7x4.3x2.8  | 3155                 | 37.41                            | 33                             | 1980                        |         |
| 5       | S R   |                                       | 8.8x4.2x2.9  | 3194                 | 36.96                            | 43                             | 2610                        |         |
| 6       | S R   |                                       | 8.8x4.3x2.8  | 3223                 | 37.84                            | 43                             | 2550                        |         |
| 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**



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University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

10615

Dr. Mazhar Saleem

To: **M. Sohail Anjum (Project Manager)**  
**P-156 Gulberg-II, Lahore**  
**Project: Construction of P-156 Gulberg-II, Lahore**

Our Ref. No. CL/CED/ 931 Dated: 06-10-20

Your Ref. No. P-156-141 Dated: 28-09-20

## COMPRESSION TEST REPORT

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

Specimens received on: 28-09-20 Tested on: 05-10-20 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-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1       | A R   |                                       | 8.7x4.1x3.0  | 3224                 | 35.67                                | 67                             | 4210                        |         |
| 2       | A R   |                                       | 8.7x4.0x2.9  | 3192                 | 34.8                                 | 63                             | 4060                        |         |
| 3       | A R   |                                       | 8.8x4.1x2.9  | 3176                 | 36.08                                | 83                             | 5160                        |         |
| 4       | A R   |                                       | 8.4x3.9x2.7  | 3191                 | 32.76                                | 43                             | 2940                        |         |
| 5       | A R   |                                       | 8.9x4.3x2.9  | 3246                 | 38.27                                | 59                             | 3460                        |         |
| 6       | A R   |                                       | 8.8x4.2x2.9  | 3142                 | 36.96                                | 45                             | 2730                        |         |
| 7       |       |                                       |              |                      |                                      |                                |                             |         |
| 8       |       |                                       |              |                      |                                      |                                |                             |         |
| 9       |       |                                       |              |                      |                                      |                                |                             |         |
| 10      |       |                                       |              |                      |                                      |                                |                             |         |
| 11      |       |                                       |              |                      |                                      |                                |                             |         |
| 12      |       |                                       |              |                      |                                      |                                |                             |         |
| 13      |       |                                       |              |                      |                                      |                                |                             |         |
| 14      |       |                                       |              |                      |                                      |                                |                             |         |
| 15      |       |                                       |              |                      |                                      |                                |                             |         |
| 16      |       |                                       |              |                      |                                      |                                |                             |         |

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supervisor(lab)

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University of Engineering and Technology, Lahore  
Phone Nos. 042-99029202, 042-99029217

10614  
Dr. Mazhar  
Saleem

To: **Safdar Hussain (Resident Engineer)**

**A&TP Section, Associated Consulting Engineers ACE Ltd. Lahore**

**Project: (Package-1) Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar (M/s ZKH)**

Our Ref. No. CL/CED/ 932 Dated: 06-10-20

Your Ref. No. ACE/RE- PDS/MNK/BHK/20/339 Dated: 25-09-20

## COMPRESSION TEST REPORT

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

Specimens received on: 28-09-20 Tested on: 05-10-20 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-<br>Section<br>(Sq. in) | Ultimate<br>load<br>(Tons/lbs) | Ultimate<br>Stress<br>(Psi) | Remarks |
|---------|-------|---------------------------------------|--------------|----------------------|--------------------------------------|--------------------------------|-----------------------------|---------|
| 1       | H     |                                       | 8.5x4.0x2.8  | 2450                 | 34                                   | 53                             | 3500                        |         |
| 2       | H     |                                       | 8.6x4.0x2.7  | 2421                 | 34.4                                 | 35                             | 2280                        |         |
| 3       | H     |                                       | 8.2x4.1x2.8  | 2573                 | 33.62                                | 43                             | 2870                        |         |
| 4       | H     |                                       | 8.7x4.1x2.8  | 2453                 | 35.67                                | 41                             | 2580                        |         |
| 5       | H     |                                       | 8.4x4.1x2.7  | 2378                 | 34.44                                | 41                             | 2670                        |         |
| 6       | H     |                                       | 8.5x4.0x2.7  | 2417                 | 34                                   |                                |                             |         |
| 7       | H     |                                       | 8.6x4.1x2.8  | 2483                 | 35.26                                |                                |                             |         |
| 8       | H     |                                       | 8.5x4.1x2.8  | 2695                 | 34.85                                |                                |                             |         |
| 9       | H     |                                       | 8.5x4.0x2.8  | 2358                 | 34                                   |                                |                             |         |
| 10      | H     |                                       | 8.6x4.0x2.8  | 2580                 | 34.4                                 |                                |                             |         |
| 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

10637

To: M. Yousaf & Co.

Dr. Usman Akmal

Lahore

Project: RCC Slab G.F of TCF Secondary School Malloki, Kasur

Our Ref. No. CL/CED/

933

Dated:

06-10-20

Your Ref. No.

Nil

Dated:

05-10-20

## COMPRESSION TEST REPORT

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

Specimens received on:

05-10-20

Tested on:

06-10-20

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       | Slab  | 25            | 8   | 2020 | 6x6x6        | 8.2                  | 36                                   | 92                             | 5730                        | Non Engraved |
| 2       | Slab  | 25            | 8   | 2020 | 6x6x6        | 8.2                  | 36                                   | 92                             | 5730                        | Non Engraved |
| 3       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 4       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 5       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 6       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 7       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 8       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 9       |       |               |     |      |              |                      |                                      |                                |                             |              |
| 10      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 11      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 12      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 13      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 14      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 15      |       |               |     |      |              |                      |                                      |                                |                             |              |
| 16      |       |               |     |      |              |                      |                                      |                                |                             |              |

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