



# Plain and Reinforced Concrete Laboratory

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7662  
Engr. A. Rehman

To: Engr. M. Usama  
Project Engineer, STRUC-ARCH PAKISTAN

Project: CONSTRUCTION OF NEW 500KV CIRCUIT BREAKER FOUNDATIONS AT ROUSH POWER PLANT, KHANEWAL, PAKISTAN. (B3Q2 (L1,L2,L3) & B2Q2 (L1,L2,L3))

Our Ref. No. CL/CED/ 5664

Dated: 23-08-24

Test Specification

Your Ref. No. Rousch/24/MU/03

Dated: 19-08-24

(ASTM C39)

## COMPRESSION TEST REPORT



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

Specimens received on: 22-08-24 Tested on: 23-08-24 in dry/wet condition



| Sr. No. | Mark*                       | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-----------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                             | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Lean Concrete of Foundation | 9             | 8   | 2024 | 6Diax12      | ---                     | 13                      | 28.28                         | 30                          | 2376                     | ---                  | Non Engraved |
| 2       | Lean Concrete of Foundation | 9             | 8   | 2024 | 6Diax12      | ---                     | 13.4                    | 28.28                         | 24                          | 1901                     | ---                  | Non Engraved |
| 3       | Lean Concrete of Foundation | 9             | 8   | 2024 | 6Diax12      | ---                     | 13                      | 28.28                         | 34                          | 2693                     | ---                  | Non Engraved |
| 4       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by: Nil

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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" diax12" 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
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ORIGINAL  
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7662  
 Engr. A. Rehman

To: Engr. M. Usama  
 Project Engineer, STRUC-ARCH PAKISTAN

Project: CONSTRUCTION OF NEW 500KV CIRCUIT BREAKER FOUNDATIONS AT ROUSH POWER PLANT, KHANEWAL, PAKISTAN. (B2Q2L3)

Our Ref. No. CL/CED/ 5665

Dated: 23-08-24

Test Specification

Your Ref. No. Rousch/24/MU/05

Dated: 21-08-24

(ASTM C39)

## COMPRESSION TEST REPORT



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

Specimens received on: 22-08-24 Tested on: 23-08-24 in dry/wet condition



| Sr. No. | Mark*                      | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|----------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                            | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Pad Concrete of Foundation | 15            | 8   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 42                          | 3327                     | ---                  | Non Engraved |
| 2       | Pad Concrete of Foundation | 15            | 8   | 2024 | 6Diax12      | ---                     | 13                      | 28.28                         | 33                          | 2614                     | ---                  | Non Engraved |
| 3       | Pad Concrete of Foundation | 15            | 8   | 2024 | 6Diax12      | ---                     | 13.4                    | 28.28                         | 32                          | 2535                     | ---                  | Non Engraved |
| 4       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by: Nil

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports1/>

- \* 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" diax12" 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)
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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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7662  
Engr. A. Rehman

To: Engr. M. Usama  
Project Engineer, STRUC-ARCH PAKISTAN

Project: CONSTRUCTION OF NEW 500KV CIRCUIT BREAKER FOUNDATIONS AT ROUSH POWER PLANT, KHANEWAL, PAKISTAN. (B3Q2 (L1,L2,L3))

Our Ref. No. CL/CED/ 5666

Dated: 23-08-24

Test Specification

Your Ref. No. Rousch/24/MU/04

Dated: 20-08-24

(ASTM C39)

## COMPRESSION TEST REPORT



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

Specimens received on: 22-08-24 Tested on: 23-08-24 in dry/wet condition



| Sr. No. | Mark*                      | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|----------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                            | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Pad Concrete of Foundation | 13            | 8   | 2024 | 6Diax12      | ---                     | 13.4                    | 28.28                         | 52                          | 4119                     | ---                  | Non Engraved |
| 2       | Pad Concrete of Foundation | 13            | 8   | 2024 | 6Diax12      | ---                     | 13                      | 28.28                         | 44                          | 3485                     | ---                  | Non Engraved |
| 3       | Pad Concrete of Foundation | 13            | 8   | 2024 | 6Diax12      | ---                     | 13                      | 28.28                         | 42                          | 3327                     | ---                  | Non Engraved |
| 4       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                        | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by: Nil

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports1/>

- \* 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"diax12" 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)
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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7673  
Engr. A. Rehman

To: Engr. Haseeb Afzal  
Project Manager, HMB Developers Pvt. Ltd.

Project: Construction of 5th Floor Columns A/1,2 C, E/1,2,4 G, F/4 & Pick up Columns A/1,3,3' A/3' B/4

Our Ref. No. CL/CED/ 5667

Dated: 23/8/2024

Test Specification

Your Ref. No. HMBDPL/S.O/08/24/126 (LHR)

Dated: 23/8/2024

(ASTM C39)

## COMPRESSION TEST REPORT



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

Specimens received on: 23/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*             | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                   | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | CT-129 (6000 Psi) | 26            | 7   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 66                          | 5228                     | ---                  | Non Engraved |
| 2       | CT-129 (6000 Psi) | 26            | 7   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 64                          | 5069                     | ---                  | Non Engraved |
| 3       | CT-129 (6000 Psi) | 26            | 7   | 2024 | 6Diax12      | ---                     | 14.2                    | 28.28                         | 69                          | 5465                     | ---                  | Non Engraved |
| 4       | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by: Mr. Ghulam Nabi; CNIC 35201-1248412-1

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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" diax12" cylinder) strength at 28 days as compressive strength

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Director/Dy. Director Concrete Laboratory



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**ORIGINAL**  
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7651  
Engr. A. Rehman

To: Engr. Zaheer ud Din Babar  
Deputy General Manager Projects, Habib Rafiq Engineering (Pvt.) Limited

Project: Construction of Sky Gardens Tower, Lahore (Core Wall-02)

Our Ref. No. CL/CED/ 5668

Dated: 23/8/2024

Test Specification

Your Ref. No. HRLE/SKG/2024/159

Dated: 21-08-24

(ASTM C39)

## COMPRESSION TEST REPORT



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

Specimens received on: 21/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*                            | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|----------------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                                  | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Level 00 to 01 at Grid (C-E/2-3) | 24            | 7   | 2024 | 6Diax12      | ---                     | 14.6                    | 28.28                         | 129                         | 10218                    | ---                  | Non Engraved |
| 2       | Level 00 to 01 at Grid (C-E/2-3) | 24            | 7   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 115                         | 9109                     | ---                  | Non Engraved |
| 3       | Level 00 to 01 at Grid (C-E/2-3) | 24            | 7   | 2024 | 6Diax12      | ---                     | 14.4                    | 28.28                         | 108                         | 8554                     | ---                  | Non Engraved |
| 4       | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                              | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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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Director/Dy. Director Concrete Laboratory



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A carbon copy for the report has been retained in the lab for record.

7660  
Engr. A. Rehman

To: Mr. Mouazam Ali Shahzad  
Asst. Resident Engineer, New Vision Engineering Consultant  
Project: UPGRADATION & MODERNIZATION OF PAKISTAN MINT PHASE II-A SHALIMAR TOWN GT ROAD LAHORE  
Our Ref. No. CL/CED/ 5669 Dated: 23/8/2024  
Your Ref. No. NVEC/RE/PAKMINT/2024/48 Dated: 20/8/2024

Test Specification  
(ASTM C39)

### COMPRESSION TEST REPORT



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

Specimens received on: 22/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*              | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|--------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                    | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Columns (5000 Psi) | 12            | 8   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 66                          | 5228                     | ---                  | Non Engraved |
| 2       | Columns (5000 Psi) | 12            | 8   | 2024 | 6Diax12      | ---                     | 13.2                    | 28.28                         | 64                          | 5069                     | ---                  | Non Engraved |
| 3       | Columns (5000 Psi) | 12            | 8   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 67                          | 5307                     | ---                  | Non Engraved |
| 4       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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" diax12" cylinder) strength at 28 days as compressive strength

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

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- 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7660  
 Engr. A. Rehman

**To: Mr. Mouazam Ali Shahzad**  
 Asst. Resident Engineer, New Vision Engineering Consultant  
 Project: UPGRADATION & MODERNIZATION OF PAKISTAN MINT PHASE II-A SHALIMAR TOWN GT ROAD LAHORE  
 Our Ref. No. CL/CED/ 5670      Dated: 23/8/2024  
 Your Ref. No. NVEC/RE/PAKMINT/2024/      Dated: 13/8/2024

Test Specification  
 (ASTM C39)

## COMPRESSION TEST REPORT



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

Specimens received on: 22/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*       | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |             | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Plinth Beam | 4             | 8   | 2024 | 6Diax12      | ---                     | 13                      | 28.28                         | 58                          | 4594                     | ---                  | Non Engraved |
| 2       | Plinth Beam | 4             | 8   | 2024 | 6Diax12      | ---                     | 13.8                    | 28.28                         | 54                          | 4277                     | ---                  | Non Engraved |
| 3       | Plinth Beam | 4             | 8   | 2024 | 6Diax12      | ---                     | 14.2                    | 28.28                         | 64                          | 5069                     | ---                  | Non Engraved |
| 4       | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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" diax12" 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

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7660  
Engr. A. Rehman

To: Mr. Mouazam Ali Shahzad  
Asst. Resident Engineer, New Vision Engineering Consultant  
Project: UPGRADATION & MODERNIZATION OF PAKISTAN MINT PHASE II-A SHALIMAR TOWN GT ROAD LAHORE  
Our Ref. No. CL/CED/ 5671 Dated: 23/8/2024  
Your Ref. No. NVEC/RE/PAKMINT/2024/47 Dated: 20/8/2024

Test Specification  
(ASTM C39)

### COMPRESSION TEST REPORT



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

Specimens received on: 22/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*                  | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                        | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Plinth Beam (4000 Psi) | 12            | 8   | 2024 | 6Diax12      | ---                     | 14.4                    | 28.28                         | 81                          | 6416                     | ---                  | Non Engraved |
| 2       | Plinth Beam (4000 Psi) | 12            | 8   | 2024 | 6Diax12      | ---                     | 13.2                    | 28.28                         | 54                          | 4277                     | ---                  | Non Engraved |
| 3       | Plinth Beam (4000 Psi) | 12            | 8   | 2024 | 6Diax12      | ---                     | 14                      | 28.28                         | 58                          | 4594                     | ---                  | Non Engraved |
| 4       | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                    | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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" diax12" 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7584  
 Engr. A. Rehman

**To:** Sub Divisional Officer  
 Buildings Sub Division C.M. Sectt; Lahore

**Project:** Special Repair to the Office of GOR-1, Lahore

**Our Ref. No.** CL/CED/ 5672  
**Your Ref. No.** SDO/CMS/945

**Dated:** 23/8/2024      Test Specification  
**Dated:** 20/7/2024      (----)

## COMPRESSION TEST REPORT



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

**Specimens received on:** 09-08-24    **Tested on:** 23/8/2024    in dry/wet condition

| Sr. No. | Mark*  | Casting Date* |     |      | Size<br>(in)    | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|--------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |        | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | Talwar | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3735                    | 3315                    | 37.84                         | 40                          | 2368                     | 12.67                | ---     |
| 2       | Talwar | ---           | --- | ---  | 8.9 x 4.3 x 2.8 | 3445                    | 3100                    | 38.27                         | 44                          | 2575                     | 11.13                | ---     |
| 3       | Talwar | ---           | --- | ---  | 9 x 4.4 x 3     | 3820                    | 3350                    | 39.6                          | 33                          | 1867                     | 14.03                | ---     |
| 4       | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 5       | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 6       | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 7       | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 8       | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 9       | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 10      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 11      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---    | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

**Witnessed by:**

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/1/>

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

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**Supervisor (Lab)**

**Director/Dy. Director Concrete Laboratory**



# Plain and Reinforced Concrete Laboratory

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7584  
Dr. Umbreen

To: Sub Divisional Officer  
Buildings Sub Division C.M. Sectt; Lahore

Project: Special Repair to the Offices of GOR-1, Lahore

Our Ref. No. CL/CED/ 5673

Dated: 23/8/2024

Test Specification

Your Ref. No. SDO/CMS/939

Dated: 04-07-24

(BS 1881-116)

## COMPRESSION TEST REPORT



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

Specimens received on: 9/8/2024 Tested on: 22-08-24 in dry/wet condition

| Sr. No. | Mark*                    | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|--------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                          | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | RCC Concrete (1:1-1/2:3) | 20            | 6   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 84                          | 5227                     | ---                  | Non Engraved |
| 2       | RCC Concrete (1:1-1/2:3) | 20            | 6   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 62                          | 3858                     | ---                  | Non Engraved |
| 3       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

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

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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7584  
 Dr. Umbreen

**To:** Sub Divisional Officer  
 Buildings Sub Division C.M. Sectt; Lahore

**Project:** Special Repair to the Offices of GOR-1, Lahore

**Our Ref. No.** CL/CED/ 5674

**Dated:** 23/8/2024

**Test Specification**

**Your Ref. No.** SDO/CMS/942

**Dated:** 20-07-24

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

**Specimens received on:** 9/8/2024 **Tested on:** 22-08-24 **in dry/wet condition**

| Sr. No. | Mark*                         | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                               | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | RCC Concrete (1:1-1/2:3) Col. | 22            | 6   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 78                          | 4853                     | ---                  | Non Engraved |
| 2       | RCC Concrete (1:1-1/2:3) Col. | 22            | 6   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 64                          | 3982                     | ---                  | Non Engraved |
| 3       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                           | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

**Witnessed by:**

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

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

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**Supervisor (Lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7584  
 Engr. A. Rehman

**To:** Sub Divisional Officer  
 Buildings Sub Division C.M. Sectt; Lahore

**Project:** Special Repair to the Office of GOR-1, Lahore

**Our Ref. No.** CL/CED/ 5675

**Dated:** 23/8/2024

**Test Specification**

**Your Ref. No.** SDO/CMS/918

**Dated:** 15-07-24

( ---- )

## COMPRESSION TEST REPORT



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

**Specimens received on:** 09-08-24 **Tested on:** 23/8/2024 **in dry/wet condition**

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in)    | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |       | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | RB    | ---           | --- | ---  | 8.7 x 4.1 x 2.8 | 3380                    | 3045                    | 35.67                         | 39                          | 2449                     | 11                   | ---     |
| 2       | RB    | ---           | --- | ---  | 8.7 x 4.2 x 3   | 3520                    | 3230                    | 36.54                         | 36                          | 2207                     | 8.98                 | ---     |
| 3       | RB    | ---           | --- | ---  | 8.8 x 4.2 x 3   | 3660                    | 3245                    | 36.96                         | 36                          | 2182                     | 12.79                | ---     |
| 4       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 5       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 6       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 7       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 8       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 9       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 10      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 11      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

**Witnessed by:**

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports1/>

- \* 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

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7642  
Engr. A. Rehman

To: Mr. Khadim Hussain  
Civil Engineer, NISHAT Mill Bhikhi, 13 km Faisalabad Road, Bhikhi, Sheikhpura.

Project: Construction of Nishat Mills (Sizing and Warping Unit)- Mill Building Footing

Our Ref. No. CL/CED/ 5676

Dated: 23/8/2024

Test Specification

Your Ref. No. NM/C-TEST/001

Dated: 19/8/2024

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | C20   | 2             | 2   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 55                          | 3422                     | ---                  | Non Engraved |
| 2       | C20   | 2             | 2   | 2024 | 6x6x6        | ---                     | 8.2                     | 36                            | 62                          | 3858                     | ---                  | Non Engraved |
| 3       | C20   | 2             | 2   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 117                         | 7280                     | ---                  | Non Engraved |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7642  
Engr. A. Rehman

To: Mr. Khadim Hussain  
Civil Engineer, NISHAT Mill Bhikhi, 13 km Faisalabad Road, Bhikhi, Sheikhpura

Project: Construction of Nishat Mills (Sizing and Warping Unit)- Mill Building Tie Beam

Our Ref. No. CL/CED/ 5677

Dated: 23/8/2024

Test Specification

Your Ref. No. NM/C-TEST/002

Dated: 19/8/2024

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | C20   | 30            | 4   | 2024 | 6x6x6        | ---                     | 8.2                     | 36                            | 87                          | 5413                     | ---                  | Non Engraved |
| 2       | C20   | 30            | 4   | 2024 | 6x6x6        | ---                     | 8.4                     | 36                            | 77                          | 4791                     | ---                  | Non Engraved |
| 3       | C20   | 30            | 4   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 57                          | 3547                     | ---                  | Non Engraved |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7642  
 Engr. A. Rehman

**To:** Mr. Khadim Hussain  
 Civil Engineer, NISHAT Mill Bhikhi, 13 km Faisalabad Road, Bhikhi, Sheikhpura

**Project:** Construction of Nishat Mills (Sizing and Warping Unit)- Mill Building Slab

**Our Ref. No. CL/CED/ 5678**

**Dated: 23/8/2024**

**Test Specification**

**Your Ref. No. NM/C-TEST/002**

**Dated: 19/8/2024**

**( BS 1881-116 )**

## COMPRESSION TEST REPORT



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

**Specimens received on:** 20/8/2024 **Tested on:** 23/8/2024 **in dry/wet condition**

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | C20   | 12            | 4   | 2024 | 6x6x6        | ---                     | 8.2                     | 36                            | 72                          | 4480                     | ---                  | Non Engraved |
| 2       | C20   | 12            | 4   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 66                          | 4107                     | ---                  | Non Engraved |
| 3       | C20   | 12            | 4   | 2024 | 6x6x6        | ---                     | 8.2                     | 36                            | 58                          | 3609                     | ---                  | Non Engraved |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

**Witnessed by:**

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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

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- 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7642  
 Engr. A. Rehman

**To:** Mr. Khadim Hussain  
 Civil Engineer, NISHAT Mill Bhikhi, 13 km Faisalabad Road, Bhikhi, Sheikhpura

**Project:** Construction of Nishat Mills (Sizing and Warping Unit)- Indogi Tank Bed Foundation

**Our Ref. No. CL/CED/ 5679**

**Dated: 23/8/2024**

**Test Specification**

**Your Ref. No. NM/C-TEST/011**

**Dated: 19/8/2024**

**( BS 1881-116 )**

## COMPRESSION TEST REPORT



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

**Specimens received on:** 20/8/2024 **Tested on:** 23/8/2024 **in dry/wet condition**

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | C20   | 17            | 4   | 2024 | 6x6x6        | ---                     | 8.2                     | 36                            | 71                          | 4418                     | ---                  | Non Engraved |
| 2       | C20   | 17            | 4   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 80                          | 4978                     | ---                  | Non Engraved |
| 3       | C20   | 17            | 4   | 2024 | 6x6x6        | ---                     | 8.2                     | 36                            | 51                          | 3173                     | ---                  | Non Engraved |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

**Witnessed by:**

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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

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**Supervisor (Lab)**

**Director/Dy. Director Concrete Laboratory**





**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7633  
 Engr. A. Rehman

To: Mr. KHALIL AHMAD  
 Project Manager, S.A Gardens (Pvt) Ltd. KSK

Project: Structure- Premium Block Culvert; Part of Structure- RCC Left Side Foundation

Our Ref. No. CL/CED/ 5680

Dated: 23/8/2024

Test Specification

Your Ref. No. SA/PM/Dev/1021

Dated: Nil

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 19/8/2024    Tested on: 23/8/2024    in dry/wet condition

| Sr. No. | Mark*                    | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|--------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                          | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | RCC Left Side Foundation | 14            | 8   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 65                          | 4044                     | ---                  | Non Engraved |
| 2       | RCC Left Side Foundation | 14            | 8   | 2024 | 6x6x6        | ---                     | 8.4                     | 36                            | 62                          | 3858                     | ---                  | Non Engraved |
| 3       | RCC Left Side Foundation | 14            | 8   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 74                          | 4604                     | ---                  | Non Engraved |
| 4       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

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

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- 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7633  
 Engr. A. Rehman

To: Mr. KHALIL AHMAD  
 Project Manager, S.A Gardens (Pvt) Ltd. KSK

Project: Structure- Premium Block Culvert; Part of Structure- RCC Wall Left Side

Our Ref. No. CL/CED/ 5681

Dated: 23/8/2024

Test Specification

Your Ref. No. SA/PM/Dev/1022

Dated: Nil

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 19/8/2024    Tested on: 23/8/2024    in dry/wet condition

| Sr. No. | Mark*              | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|--------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                    | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | RCC Wall Left Side | 18            | 8   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 74                          | 4604                     | ---                  | Non Engraved |
| 2       | RCC Wall Left Side | 18            | 8   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 66                          | 4107                     | ---                  | Non Engraved |
| 3       | RCC Wall Left Side | 18            | 8   | 2024 | 6x6x6        | ---                     | 8.8                     | 36                            | 78                          | 4853                     | ---                  | Non Engraved |
| 4       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports1/>

- \* 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7644  
 Engr. A. Rehman

To: **S & S Associates**  
 Ayoub Chowk, Johar Town, Lahore.

Project: Construction of Heifer Shed 11 & 12 at Bin Riaz Farm, Pattoki

Our Ref. No. CL/CED/ 5682

Dated: 23/8/2024

Test Specification

Your Ref. No. BRD/HS24/CT/032

Dated: 20/8/2024

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*                             | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-----------------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                                   | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | Col, Shed 12 Grid B-C/1 (1:1.5:3) | 20            | 7   | 2024 | 6x6x6        | ---                     | 8.8                     | 36                            | 87                          | 5413                     | ---                  | Non Engraved |
| 2       | Col, Shed 12 Grid B-C/1 (1:1.5:3) | 20            | 7   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 85                          | 5289                     | ---                  | Non Engraved |
| 3       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                               | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7644  
 Engr. A. Rehman

To: **S & S Associates**  
 Ayoub Chowk, Johar Town, Lahore.

Project: Construction of Heifer Shed 11 & 12 at Bin Riaz Farm, Pattoki

Our Ref. No. CL/CED/ 5683

Dated: 23/8/2024

Test Specification

Your Ref. No. BRD/HS24/CT/031

Dated: 20/8/2024

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*                                | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|--------------------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |                                      | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | ColShed 11 Grid 2-3/A,B-C/2(1:1.5:3) | 18            | 7   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 90                          | 5600                     | ---                  | Non Engraved |
| 2       | ColShed 11 Grid 2-3/A,B-C/2(1:1.5:3) | 18            | 7   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 74                          | 4604                     | ---                  | Non Engraved |
| 3       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---                                  | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7647  
Engr. A. Rehman

To: Mr. Muhammad Jan  
Senior Site Inspector, DESIGNMEN Consulting Engineers (Pvt) Ltd

Project: Construction of Allama Iqbal Open University, Regional Campus Sheikhupura.

Our Ref. No. CL/CED/ 5684

Dated: 23/8/2024

Test Specification

Your Ref. No. P-348/2022/AIOU-SKP/LAB/22

Dated: 16/8/2024

(BS 1881-116)

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | ---   | 18            | 7   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 93                          | 5787                     | ---                  | Non Engraved |
| 2       | ---   | 18            | 7   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 74                          | 4604                     | ---                  | Non Engraved |
| 3       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports1/>

- \* 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7647  
 Engr. A. Rehman

**To: Mr. Muhammad Jan**  
 Senior Site Inspector, DESIGNMEN Consulting Engineers (Pvt) Ltd

**Project: Construction of Allama Iqbal Open University, Regional Campus Sheikhupura.**

**Our Ref. No. CL/CED/ 5685**

**Dated: 23/8/2024**

**Test Specification**

**Your Ref. No. P-348/2022/AIOU-SKP/LAB/23**

**Dated: 18-08-24**

**( BS 1881-116 )**

## COMPRESSION TEST REPORT



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

**Specimens received on: 20/8/2024    Tested on: 23/8/2024    in dry/wet condition**

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | ---   | 12            | 8   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 59                          | 3671                     | ---                  | Non Engraved |
| 2       | ---   | 12            | 8   | 2024 | 6x6x6        | ---                     | 8                       | 36                            | 50                          | 3111                     | ---                  | Non Engraved |
| 3       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

**Witnessed by:**

**Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>**

- \* 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

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- 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

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7628  
Engr. A. Rehman

To: Mr. Zaheer Abbas  
Senior Manager Construction, Beaconhouse School System, Educational Services (Pvt) Ltd.

Project: Construction of Cantt Campus at Sargodha

Our Ref. No. CL/CED/ 5686

Dated: 23/8/2024

Test Specification

Your Ref. No. Nil

Dated: 16/8/2024

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 16/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*                       | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks  |
|---------|-----------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|----------|
|         |                             | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |          |
| 1       | First Floor Slab (3500 Psi) | 15            | 7   | 2024 | 6x6x6        | ---                     | 8.6                     | 36                            | 78                          | 4853                     | ---                  | Engraved |
| 2       | First Floor Slab (3500 Psi) | 15            | 7   | 2024 | 6x6x6        | ---                     | 8.4                     | 36                            | 85                          | 5289                     | ---                  | Engraved |
| 3       | Column (4500 Psi)           | 12            | 7   | 2024 | 6x6x6        | ---                     | 8.4                     | 36                            | 85                          | 5289                     | ---                  | Engraved |
| 4       | Column (4500 Psi)           | 12            | 7   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 85                          | 5289                     | ---                  | Engraved |
| 5       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 6       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 7       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 8       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 9       | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 10      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 11      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 12      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 13      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 14      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 15      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |
| 16      | ---                         | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---      |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

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- \*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption
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- \*\*\*\* ACI318-08 requires mean of two sample (6" dia x 12" cylinder) strength at 28 days as compressive strength

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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7637  
 Engr. A. Rehman

To: Mr. Nasir Mahmood  
 Construction Manager, ELITE Engineering (Pvt) Ltd

Project: Construction of PSO Fuel Dispensing Facility at PAK RAILWAYS WORKSHOP

Our Ref. No. CL/CED/ 5687

Dated: 23/8/2024

Test Specification

Your Ref. No. EEPL/10402/EL-09

Dated: 19/8/2024

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 19/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*    | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|----------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |          | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | 3000 Psi | 12            | 8   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 107                         | 6658                     | ---                  | Non Engraved |
| 2       | 3000 Psi | 12            | 8   | 2024 | 6x6x6        | ---                     | 9                       | 36                            | 105                         | 6533                     | ---                  | Non Engraved |
| 3       | 3000 Psi | 12            | 8   | 2024 | 6x6x6        | ---                     | 9.4                     | 36                            | 95                          | 5911                     | ---                  | Non Engraved |
| 4       | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---      | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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)
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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory





**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7605  
 Engr. A. Rehman

To: Mr. Sarfraz Rasheed  
 Executive Director Projects, ITTEFAQ Building Solutions Pvt. Ltd

Project: Construction of Ware House Office Building, Staff Residence, Rest House and other Buildings for M/S Allied Engineering & Services Pvt Ltd at Okara  
 Our Ref. No. CL/CED/ 5688

Dated: 23/8/2024

Test Specification

Your Ref. No. Nil

Dated: 12-08-24

( BS 3921\*\* )

## COMPRESSION TEST REPORT



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

Specimens received on: 13/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in)    | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |       | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | A     | ---           | --- | ---  | 8.7 x 4.2 x 2.8 | 2950                    | 2495                    | 36.54                         | 24                          | 1471                     | 18.24                | ---     |
| 2       | A     | ---           | --- | ---  | 8.6 x 4.2 x 2.8 | 3035                    | 2475                    | 36.12                         | 24                          | 1488                     | 22.63                | ---     |
| 3       | A     | ---           | --- | ---  | 8.7 x 4.1 x 2.8 | 3120                    | 2650                    | 35.67                         | 26                          | 1633                     | 17.74                | ---     |
| 4       | A     | ---           | --- | ---  | 8.8 x 4.2 x 2.8 | 3070                    | 2605                    | 36.96                         | 26                          | 1576                     | 17.85                | ---     |
| 5       | A     | ---           | --- | ---  | 8.7 x 4.2 x 2.7 | 3020                    | 2680                    | 36.54                         | 18                          | 1103                     | 12.69                | ---     |
| 6       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 7       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 8       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 9       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 10      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 11      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports1/>

- \* 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

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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7561  
 Engr. A. Rehman

To: **Mr. M. AZHAR AKHTAR**  
 Resident Engineer, NESPAK Pvt. Ltd. & TurPak International (Pvt) Limited

Project: Construction of NEW GOR NEAR DHA PHASE - IX, LAHORE

Our Ref. No. CL/CED/ 5689

Dated: 23/8/2024

Test Specification

Your Ref. No. 4769/13/MAA/24/48

Dated: 23/7/2024

( BS 3921\*\* )

## COMPRESSION TEST REPORT



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

Specimens received on: 06-08-24 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in)    | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |       | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | Z.S   | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3825                    | 3415                    | 37.84                         | 33                          | 1953                     | 12.01                | ---     |
| 2       | Z.S   | ---           | --- | ---  | 8.9 x 4.3 x 3   | 3745                    | 3325                    | 38.27                         | 43                          | 2517                     | 12.63                | ---     |
| 3       | Z.S   | ---           | --- | ---  | 8.9 x 4.3 x 3   | 3720                    | 3270                    | 38.27                         | 42                          | 2458                     | 13.76                | ---     |
| 4       | Z.S   | ---           | --- | ---  | 8.8 x 4.3 x 2.9 | 3580                    | 3220                    | 37.84                         | 47                          | 2782                     | 11.18                | ---     |
| 5       | Z.S   | ---           | --- | ---  | 9 x 4.3 x 3.1   | 3875                    | 3335                    | 38.7                          | 42                          | 2431                     | 16.19                | ---     |
| 6       | Z.S   | ---           | --- | ---  | 8.8 x 4.2 x 2.8 | 3465                    | 3155                    | 36.96                         | 44                          | 2667                     | 9.83                 | ---     |
| 7       | Z.S   | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3730                    | 3345                    | 37.84                         | 48                          | 2841                     | 11.51                | ---     |
| 8       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 9       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 10      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 11      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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)
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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7611  
 Engr. A. Rehman

**To: Mr. SAQUIB AKRAM**  
 Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd

**Project: Construction of Road KARYAL DHONDAY WATNA LAHORE**

**Our Ref. No. CL/CED/ 5690**

**Dated: 23/8/2024**

**Test Specification**

**Your Ref. No. 3772/103/LDA-KARYAL/SA/04/02**

**Dated: 12-08-24**

**( BS 3921\*\* )**

## COMPRESSION TEST REPORT



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

**Specimens received on: 13/8/2024    Tested on: 23/8/2024    in dry/wet condition**

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in)    | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |       | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | AR    | ---           | --- | ---  | 8.8 x 4.3 x 2.9 | 3760                    | 3415                    | 37.84                         | 46                          | 2723                     | 10.1                 | ---     |
| 2       | AR    | ---           | --- | ---  | 8.9 x 4.3 x 3.1 | 3895                    | 3500                    | 38.27                         | 40                          | 2341                     | 11.29                | ---     |
| 3       | AR    | ---           | --- | ---  | 8.9 x 4.3 x 3   | 3785                    | 3475                    | 38.27                         | 40                          | 2341                     | 8.92                 | ---     |
| 4       | AR    | ---           | --- | ---  | 8.9 x 4.3 x 3   | 3720                    | 3415                    | 38.27                         | 46                          | 2692                     | 8.93                 | ---     |
| 5       | AR    | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3745                    | 3400                    | 37.84                         | 41                          | 2427                     | 10.15                | ---     |
| 6       | S     | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3700                    | 3310                    | 37.84                         | 41                          | 2427                     | 11.78                | ---     |
| 7       | S     | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3770                    | 3325                    | 37.84                         | 40                          | 2368                     | 13.38                | ---     |
| 8       | S     | ---           | --- | ---  | 8.9 x 4.3 x 3.1 | 3705                    | 3290                    | 38.27                         | 43                          | 2517                     | 12.61                | ---     |
| 9       | S     | ---           | --- | ---  | 8.9 x 4.3 x 3.1 | 3740                    | 3315                    | 38.27                         | 42                          | 2458                     | 12.82                | ---     |
| 10      | S     | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3770                    | 3320                    | 37.84                         | 47                          | 2782                     | 13.55                | ---     |
| 11      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

**Witnessed by:**

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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

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**Supervisor (Lab)**

**Director/Dy. Director Concrete Laboratory**



**Plain and Reinforced Concrete Laboratory**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

**ORIGINAL**  
 A carbon copy for the report has been retained in the lab for record.

7635  
 Engr. A. Rehman

**To: Mr. RASHID KAMRAN**  
 Resident Engineer, Construction and Management Division, NESPAK (Pvt) Ltd

**Project: Improvement of Infrastructure in Mohlanwal Housing Scheme Lahore (Package-2)**

**Our Ref. No. CL/CED/ 5691**

**Dated: 23/8/2024**

**Test Specification**

**Your Ref. No. 2599/13/RK/05/MWL/P-2/210**

**Dated: 23/7/2024**

( ---- )

## COMPRESSION TEST REPORT



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

**Specimens received on: 19/8/2024    Tested on: 23/8/2024    in dry/wet condition**

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in)    | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |       | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | ABC   | ---           | --- | ---  | 8.8 x 4.3 x 3   | 3625                    | 3285                    | 37.84                         | 44                          | 2605                     | 10.35                | ---     |
| 2       | ABC   | ---           | --- | ---  | 8.8 x 4.3 x 3.1 | 3775                    | 3385                    | 37.84                         | 44                          | 2605                     | 11.52                | ---     |
| 3       | ABC   | ---           | --- | ---  | 8.7 x 4.2 x 3   | 3620                    | 3260                    | 36.54                         | 44                          | 2697                     | 11.04                | ---     |
| 4       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 5       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 6       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 7       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 8       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 9       | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 10      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 11      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---   | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

**Witnessed by:**

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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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**Supervisor (Lab)**

**Director/Dy. Director Concrete Laboratory**



# Plain and Reinforced Concrete Laboratory

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
A carbon copy for the report has been retained in the lab for record.

7643  
Engr. A. Rehman

To: DISTRICT OFFICER (I&S)  
District Council Sheikhpura

Project: Construction of Soling at BHU MOZA LUBAN WALA & RAVI SAIFAN GAGU DOGAR BHIKHI DHANA  
QP Tehsil Ferozewala District Sheikhpura.

Our Ref. No. CL/CED/ 5692-1 of 2

Dated: 23/8/2024

Test Specification

Your Ref. No. DO (I&S)-DC-SKP/2047

Dated: 01-06-23

( ---- )

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark*  | Casting Date* |     |      | Size<br>(in)  | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks |
|---------|--------|---------------|-----|------|---------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |        | DD            | MM  | YYYY |               |                         |                         |                               |                             |                          |                      |         |
| 1       | Talwar | ---           | --- | ---  | 8.6 x 4.2 x 3 | ---                     | 3245                    | 36.12                         | 42                          | 2605                     | ---                  | ---     |
| 2       | Talwar | ---           | --- | ---  | 8.7 x 4.2 x 3 | ---                     | 3385                    | 36.54                         | 48                          | 2943                     | ---                  | ---     |
| 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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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



# Plain and Reinforced Concrete Laboratory

## Civil Engineering Department

University of Engineering and Technology, Lahore, Pakistan  
Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

**ORIGINAL**  
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7643  
Engr. A. Rehman

To: DISTRICT OFFICER (I&S)  
District Council Sheikhpura

Project: Construction of Soling at BHU MOZA LUBAN WALA & RAVI SAIFAN GAGU DOGAR BHIKHI DHANA  
QP Tehsil Ferozewala District Sheikhpura.

Our Ref. No. CL/CED/ 5692-2 of 2

Dated: 23/8/2024

Test Specification

Your Ref. No. DO (I&S)-DC-SKP/2047

Dated: 01-06-23

( BS 1881-116 )

## COMPRESSION TEST REPORT



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

Specimens received on: 20/8/2024 Tested on: 23/8/2024 in dry/wet condition

| Sr. No. | Mark* | Casting Date* |     |      | Size<br>(in) | Wet Weight<br>(Kg/ gms) | Dry Weight<br>(Kg/ gms) | Area of X-Section<br>(Sq. in) | Ultimate load<br>(Imp.Tons) | Ultimate Stress<br>(psi) | Water Absorption (%) | Remarks      |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
|         |       | DD            | MM  | YYYY |              |                         |                         |                               |                             |                          |                      |              |
| 1       | ---   | 10            | 4   | 2023 | 6 x 6 x 6    | ---                     | 9                       | 36                            | 57                          | 3547                     | ---                  | Non Engraved |
| 2       | ---   | 10            | 4   | 2023 | 6 x 6 x 6    | ---                     | 9                       | 36                            | 55                          | 3422                     | ---                  | Non Engraved |
| 3       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 4       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 5       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 6       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 7       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 8       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 9       | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 10      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 11      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 12      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 13      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 14      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 15      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |
| 16      | ---   | ---           | --- | ---  | ---          | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---          |

Witnessed by:

Results can also be seen on website <https://civil.uet.edu.pk/concrete-laboratory-reports/>

- \* 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**  
**Civil Engineering Department**  
 University of Engineering and Technology, Lahore, Pakistan  
 Landline: 042-99029245 & 042-99029202      Mobile: 0307-0496895

ORIGINAL  
 A carbon copy for the report has been retained in the lab for record.

7645  
 Engr. A. Rehman

To: Mr. Khurram Naeem  
 JABAL CRETE, Bahria Orchard, Raiwind Road, Lahore.

Project: Nil

Our Ref. No. CL/CED/ 5693

Dated: 23/8/2024

Test Specification

Your Ref. No. Nil

Dated: 20/8/2024

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## COMPRESSION TEST REPORT



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|---------|-------------------------|---------------|-----|------|-----------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
|         |                         | DD            | MM  | YYYY |                 |                         |                         |                               |                             |                          |                      |         |
| 1       | Rectangular, Grey, 60mm | ---           | --- | ---  | 7.8 x 3.8 x 2.4 | ---                     | 2830                    | 29.64                         | 95                          | 7179                     | ---                  | ---     |
| 2       | Rectangular, Grey, 60mm | ---           | --- | ---  | 7.8 x 3.8 x 2.4 | ---                     | 2940                    | 29.64                         | 85                          | 6424                     | ---                  | ---     |
| 3       | Rectangular, Grey, 60mm | ---           | --- | ---  | 7.8 x 3.8 x 2.4 | ---                     | 2845                    | 29.64                         | 93                          | 7028                     | ---                  | ---     |
| 4       | Rectangular, Grey, 60mm | ---           | --- | ---  | 7.8 x 3.8 x 2.4 | ---                     | 2870                    | 29.64                         | 88                          | 6650                     | ---                  | ---     |
| 5       | Rectangular, Grey, 80mm | ---           | --- | ---  | 7.8 x 3.8 x 3.1 | ---                     | 3690                    | 29.64                         | 105                         | 7935                     | ---                  | ---     |
| 6       | Rectangular, Grey, 80mm | ---           | --- | ---  | 7.8 x 3.8 x 3.1 | ---                     | 3700                    | 29.64                         | 100                         | 7557                     | ---                  | ---     |
| 7       | Rectangular, Grey, 80mm | ---           | --- | ---  | 7.8 x 3.8 x 3.1 | ---                     | 3615                    | 29.64                         | 85                          | 6424                     | ---                  | ---     |
| 8       | Rectangular, Grey, 80mm | ---           | --- | ---  | 7.8 x 3.8 x 3.1 | ---                     | 3710                    | 29.64                         | 81                          | 6121                     | ---                  | ---     |
| 9       | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 10      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 11      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 12      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 13      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 14      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 15      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |
| 16      | ---                     | ---           | --- | ---  | ---             | ---                     | ---                     | ---                           | ---                         | ---                      | ---                  | ---     |

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