



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.

5059
 Dr. Mazhar

To: (Abdul Basit Mansoor), Assistant Executive Engineer-III,
 Central Civil Division No.II, Pak. P.W.D., Lahore.

Project: Construction of PCC, Sewerage and Tuff Tiles in UC-72 of District Lahore (2/7). (M/S Mian Muhammad Kabir, Govt. Contractor.)

Our Ref. No. CL/CED/ 1638

Dated: 05-04-23

Test Specification

Your Ref. No. AEE-III/LCCD-II/LHR/36

Dated: 17-02-23

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 04-04-23 **Tested on:** 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|---------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | (1:2:4) | 17 | 2 | 2023 | 6Diax12 | --- | 12.2 | 28.28 | 33 | 2614 | --- | Non Engraved |
| 2 | (1:2:4) | 17 | 2 | 2023 | 6Diax12 | --- | 12 | 28.28 | 27 | 2139 | --- | Non Engraved |
| 3 | (1:2:4) | 17 | 2 | 2023 | 6Diax12 | --- | 12 | 28.28 | 39 | 3089 | --- | 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)
- The test results are recommended to be interpreted in the light of above factors by the engineer.

Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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ORIGINAL
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5039
 Dr. M. Mazhar

To: Engr. Hamza Iftikhar
 Project Engineer, Mian Hydro Construction Engineers
 Project: Construction of New Blocks and Support for Penstock at Kurram Garhi Dam Power House 2
 Bannu, KPK
 Our Ref. No. CL/CED/ 1639 Dated: 05-04-23
 Your Ref. No. MHCE-HTPL/CEW-PO-060 Dated: 30/3/2023

Test Specification
 (ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: **30/03/2023** Tested on: **05-04-23** in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | --- | 2 | 3 | 2023 | 6Diax12 | --- | 13 | 28.28 | 15 | 1188 | --- | Non Engraved |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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"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



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

5025
 Dr. M. Mazhar

To: Mr. Muhammad Asif
 Project Manager, Imperium Developers

Project: Construction of Sixty6 at Gulberg-III, Lahore

Our Ref. No. CL/CED/ 1640

Dated: 05-04-23

Test Specification

Your Ref. No. IMP/PM/66/09/45

Dated: 27/3/2023

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 28/03/2023 Tested on: 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | --- | 17 | 2 | 2023 | 6Diax12 | --- | 13.2 | 28.28 | 72 | 5703 | --- | Non Engraved |
| 2 | --- | 17 | 2 | 2023 | 6Diax12 | --- | 13.2 | 28.28 | 63 | 4990 | --- | Non Engraved |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: Mr. M. Husnain, Imperium Developers

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
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Director/Dy. Director Concrete Laboratory



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ORIGINAL
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5025
 Dr. M. Mazhar

To: Mr. Muhammad Asif
 Project Manager, Imperium Developers

Project: Construction of Sixty6 at Gulberg-III, Lahore

Our Ref. No. CL/CED/ 1641

Dated: 05-04-23

Test Specification

Your Ref. No. IMP/PM/66/09/46

Dated: 27/3/2023

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 28/03/2023 Tested on: 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | --- | 19 | 2 | 2023 | 6Diax12 | --- | 14 | 28.28 | 77 | 6099 | --- | Non Engraved |
| 2 | --- | 19 | 2 | 2023 | 6Diax12 | --- | 13 | 28.28 | 73 | 5782 | --- | Non Engraved |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: Mr. M. Husnain, Imperium Developers

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

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- 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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Director/Dy. Director Concrete Laboratory



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5025
 Dr. M. Mazhar

To: Mr. Muhammad Asif
 Project Manager, Imperium Developers

Project: Construction of Sixty6 at Gulberg-III, Lahore

Our Ref. No. CL/CED/ 1642

Dated: 05-04-23

Test Specification

Your Ref. No. IMP/PM/66/09/47

Dated: 27/3/2023

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 28/03/2023 Tested on: 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | --- | 24 | 2 | 2023 | 6Diax12 | --- | 13 | 28.28 | 75 | 5941 | --- | Non Engraved |
| 2 | --- | 24 | 2 | 2023 | 6Diax12 | --- | 13.2 | 28.28 | 77 | 6099 | --- | Non Engraved |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: Mr. M. Husnain, Imperium Developers

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

- The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)
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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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ORIGINAL
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5025
 Dr. M. Mazhar

To: Mr. Muhammad Asif
 Project Manager, Imperium Developers

Project: Construction of Sixty6 at Gulberg-III, Lahore

Our Ref. No. CL/CED/ 1643

Dated: 05-04-23

Test Specification

Your Ref. No. IMP/PM/66/09/48

Dated: 27/3/2023

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 28/03/2023 Tested on: 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | --- | 25 | 2 | 2023 | 6Diax12 | --- | 13 | 28.28 | 67 | 5307 | --- | Non Engraved |
| 2 | --- | 25 | 2 | 2023 | 6Diax12 | --- | 13.2 | 28.28 | 67 | 5307 | --- | Non Engraved |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: Mr. M. Husnain, Imperium Developers

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
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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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ORIGINAL
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4940
 Dr. M. Mazhar

To: Mr. Waqas Ali
 Variant, 25-t Gulberg 2, Lahore

Project: Nil

Our Ref. No. CL/CED/ 1644

Dated: 05-04-23

Test Specification

Your Ref. No. VA/29/67

Dated: 13/3/2023

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 13/03/2023 Tested on: 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|----------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | Upper basement slab pour 7 | 12 | 1 | 2023 | 6Diax12 | --- | 14 | 28.28 | 104 | 8238 | --- | Non Engraved |
| 2 | Upper basement slab pour 7 | 12 | 1 | 2023 | 6Diax12 | --- | 13.6 | 28.28 | 106 | 8396 | --- | Non Engraved |
| 3 | Upper basement slab pour 7 | 12 | 1 | 2023 | 6Diax12 | --- | 13.4 | 28.28 | 81 | 6416 | --- | Non Engraved |
| 4 | Column C-4 | 12 | 1 | 2023 | 6Diax12 | --- | 14 | 28.28 | 116 | 9188 | --- | Non Engraved |
| 5 | Column C-4 | 12 | 1 | 2023 | 6Diax12 | --- | 14.2 | 28.28 | 112 | 8871 | --- | Non Engraved |
| 6 | Column C-4 | 12 | 1 | 2023 | 6Diax12 | --- | 14.2 | 28.28 | 114 | 9030 | --- | Non Engraved |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: M. Khurram, CNIC: 35201-2458690-9

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Director/Dy. Director Concrete Laboratory



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ORIGINAL
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4990
 Dr. Umbreen

To: Mr. M. Asif Shehzad
 Builders Crew

Project: Construction of House 215-B in Bahria Town.

Our Ref. No. CL/CED/ 1645

Dated: 05-04-23

Test Specification

Your Ref. No. Nil

Dated: 21/3/2023

(BS 3921**)

COMPRESSION TEST REPORT



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

Specimens received on: 21/3/2023 Tested on: 04-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|---------------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | | |
| 1 | MPS | --- | --- | --- | 8.8 x 4.4 x 3 | --- | 3220 | 38.72 | 33 | 1909 | --- | --- | |
| 2 | MPS | --- | --- | --- | 8.9 x 4.4 x 3 | --- | 3265 | 39.16 | 33 | 1888 | --- | --- | |
| 3 | MPS | --- | --- | --- | 8.8 x 4.3 x 3 | --- | 3260 | 37.84 | 47 | 2782 | --- | --- | |
| 4 | MPS | --- | --- | --- | 8.7 x 4.2 x 3 | --- | 3165 | 36.54 | 39 | 2391 | --- | --- | |
| 5 | MPS | --- | --- | --- | 8.7 x 4.3 x 3 | --- | 3200 | 37.41 | 39 | 2335 | --- | --- | |
| 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"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.

4990
 Dr. Umbreen

To: Mr. M. Asif Shehzad
 Builders Crew

Project: Construction of House 215-B in Bahria Town

Our Ref. No. CL/CED/ 1646

Dated: 05-04-23

Test Specification

Your Ref. No. Nil

Dated: 21/3/2023

(BS 3921**)

COMPRESSION TEST REPORT



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

Specimens received on: 21/3/2023 Tested on: 04-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | | |
| 1 | 2S3 | --- | --- | --- | 8.8 x 4.3 x 3 | --- | 3500 | 37.84 | 45 | 2664 | --- | --- | |
| 2 | 2S3 | --- | --- | --- | 8.9 x 4.3 x 3.1 | --- | 3495 | 38.27 | 39 | 2283 | --- | --- | |
| 3 | 2S3 | --- | --- | --- | 8.8 x 4.4 x 3.1 | --- | 3540 | 38.72 | 41 | 2372 | --- | --- | |
| 4 | 2S3 | --- | --- | --- | 8.8 x 4.4 x 3 | --- | 3425 | 38.72 | 43 | 2488 | --- | --- | |
| 5 | 2S3 | --- | --- | --- | 8.9 x 4.4 x 3 | --- | 3435 | 39.16 | 45 | 2574 | --- | --- | |
| 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.

5028
 Dr. M. Mazhar

To: Deputy Director Buildings-II
 LDA, Lahore

Project: Addition/Alteration at First Floor LDA Official Residence No. 682 Huma Block Allama Iqbal Town, Lahore

Our Ref. No. CL/CED/ 1647

Dated: 05-04-23

Test Specification

Your Ref. No. DDB/LDA/215

Dated: 13/3/2023

(----)

COMPRESSION TEST REPORT



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

Specimens received on: 29/3/2023 **Tested on:** 05-04-23 in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|---------------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | | |
| 1 | NS | --- | --- | --- | 9 x 4.3 x 3 | --- | 3305 | 38.7 | 43 | 2489 | --- | --- | |
| 2 | NS | --- | --- | --- | 8.9 x 4.3 x 3 | --- | 3210 | 38.27 | 49 | 2868 | --- | --- | |
| 3 | NS | --- | --- | --- | 8.8 x 4.3 x 3 | --- | 3145 | 37.84 | 41 | 2427 | --- | --- | |
| 4 | NS | --- | --- | --- | 9 x 4.2 x 2.9 | --- | 3145 | 37.8 | 41 | 2430 | --- | --- | |
| 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/>

1. * as engraved on the specimens (if any)
2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
4. **** 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

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

Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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Civil Engineering Department
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 Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

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

5028
 Dr. M. Mazhar

To: Deputy Director Buildings-II
 LDA, Lahore.

Project: Provision of Water Facility in LDA School Lahore.

Our Ref. No. CL/CED/ 1648

Dated: 05-04-23

Test Specification

Your Ref. No. DDB/LDA/216

Dated: 13/3/2023

(----)

COMPRESSION TEST REPORT



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

Specimens received on: **29/3/2023** Tested on: **05-04-23** in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------|---------------|-----|------|-----------------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | | |
| 1 | NS | --- | --- | --- | 8.9 x 4.1 x 2.9 | --- | 3215 | 36.49 | 45 | 2762 | --- | --- | |
| 2 | NS | --- | --- | --- | 8.9 x 4.3 x 3 | --- | 3315 | 38.27 | 43 | 2517 | --- | --- | |
| 3 | NS | --- | --- | --- | 8.9 x 4.3 x 3 | --- | 3250 | 38.27 | 43 | 2517 | --- | --- | |
| 4 | NS | --- | --- | --- | 9 x 4.3 x 3 | --- | 3530 | 38.7 | 41 | 2373 | --- | --- | |
| 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
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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.

5043
 Dr. M. Mazhar

To: Major Adnan Khalid (R)
 Deputy Director MTL

Project: Construction of Infrastructure Development Works of Sec - KK, DHA Ph-IV (NBPOCHS) (M/s Reliable Engg Svc Pvt Ltd)
Our Ref. No. CL/CED/ 1649

Dated: 05-04-23

Test Specification

Your Ref. No. 408/241/32/Lab/39/Misc 202

Dated: 28-03-23

(BS 6717)

COMPRESSION TEST REPORT



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

Specimens received on: 03-04-23 **Tested on:** 05-04-23 **in dry/wet condition**

| Sr. No. | Mark* | Casting Date* | | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-------------------------|---------------|-----|------|-----------------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | | |
| 1 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2635 | 29.64 | 124 | 9371 | --- | 9933 | |
| 2 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2640 | 29.64 | 120 | 9069 | --- | 9613 | |
| 3 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2670 | 29.64 | 134 | 10127 | --- | 10735 | |
| 4 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2665 | 29.64 | 130 | 9825 | --- | 10415 | |
| 5 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2575 | 29.64 | 110 | 8313 | --- | 8812 | |
| 6 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2710 | 29.64 | 106 | 8011 | --- | 8492 | |
| 7 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2710 | 29.64 | 110 | 8313 | --- | 8812 | |
| 8 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2675 | 29.64 | 114 | 8615 | --- | 9132 | |
| 9 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2765 | 29.64 | 104 | 7860 | --- | 8332 | |
| 10 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2635 | 29.64 | 100 | 7557 | --- | 8010 | |
| 11 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2765 | 29.64 | 106 | 8011 | --- | 8492 | |
| 12 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2755 | 29.64 | 116 | 8767 | --- | 9293 | |
| 13 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2610 | 29.64 | 104 | 7860 | --- | 8332 | |
| 14 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2655 | 29.64 | 112 | 8464 | --- | 8972 | |
| 15 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2700 | 29.64 | 116 | 8767 | --- | 9293 | |
| 16 | Rectangular, Grey, 60mm | --- | --- | --- | 7.8 x 3.8 x 2.3 | --- | 2670 | 29.64 | 72 | 5441 | --- | 5767 | |

Witnessed by:

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

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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.

5048
 Dr. Umbreen

To: Gulf Associates
 Sarwar Road, Lahore Cantt.

Project: Garrison Cycling Track

Our Ref. No. CL/CED/ 1650

Dated: 05-04-23

Test Specification

Your Ref. No. Nil

Dated: 30/3/2023

(----)

COMPRESSION TEST REPORT



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

Specimens received on: **03-04-23** Tested on: **04-04-23** in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|-----------|---------------|-----|------|---------------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | | |
| 1 | KerbStone | --- | --- | --- | 6 x 5.7 x 5.7 | --- | 7 | 34.2 | 25 | 1637 | --- | Cut Cube | |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 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/>

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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.

5048
 Dr. Umbreen

To: Gulf Associates
 Sarwar Road, Lahore Cantt.

Project: Garrison Cycling Track

Our Ref. No. CL/CED/ 1651

Dated: 05-04-23

Test Specification

Your Ref. No. Nil

Dated: 30/3/2023

(----)

COMPRESSION TEST REPORT



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

Specimens received on: **03-04-23** Tested on: **04-04-23** in dry/wet condition

| Sr. No. | Mark* | Casting Date* | | | Size (in) | Wet Weight (Kg/ gms) | Dry Weight (Kg/ gms) | Area of X-Section (Sq. in) | Ultimate load (Imp.Tons) | Ultimate Stress (psi) | Water Absorption (%) | Remarks |
|---------|------------------------|---------------|-----|------|---------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|----------------------|---------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | Rectangular, Red, 60mm | --- | --- | --- | 7.8 x 4 x 2.3 | --- | 2595 | 31.2 | 67 | 4810 | --- | --- |
| 2 | Rectangular, Red, 60mm | --- | --- | --- | 7.8 x 4 x 2.3 | --- | 2620 | 31.2 | 77 | 5528 | --- | --- |
| 3 | Rectangular, Red, 60mm | --- | --- | --- | 7.8 x 4 x 2.3 | --- | 2530 | 31.2 | 63 | 4523 | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by:

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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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- The test results are recommended to be interpreted in the light of above factors by the engineer.

Supervisor (Lab)

Director/Dy. Director Concrete Laboratory