



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.

3515
 Dr. Umbreen

To: Executive Engineer
 Highways Division Narowal

Project: Construction of Road from Kotli Khokhay to Sangial (Length - 1.00 KM), Tehsil Zafarwal, District Narowal.

Our Ref. No. CL/CED/ 9384

Dated: 22/7/2022

Test Specification

Your Ref. No. 385/DB

Dated: 12/03/2022

(---)

COMPRESSION TEST REPORT



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

Specimens received on: 30/6/2022 **Tested on:** 22/7/2022 **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 | No.1 | --- | --- | --- | 9 x 4.4 x 3 | 3755 | 3225 | 39.6 | 37 | 2093 | 16.43 | --- | |
| 2 | No.1 | --- | --- | --- | 8.9 x 4.3 x 3 | 3650 | 3210 | 38.27 | 47 | 2751 | 13.71 | --- | |
| 3 | No.1 | --- | --- | --- | 8.8 x 4.3 x 2.9 | 3575 | 3215 | 37.84 | 31 | 1835 | 11.2 | --- | |
| 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
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3544
 Dr. Umbreen

To: Sub Divisional Officer
 Buildings Sub Division Mandi Bahauddin
Project: Provision of Infrastructural, Academic and Operational Facilities to the Punjab University of Technology Rasul, Mandi Bahauddin, Group No. 6
Our Ref. No. CL/CED/ 9385
Your Ref. No. 176/MB

Dated: 22/7/2022 **Test Specification**
Dated: 06/04/2022 (---)

COMPRESSION TEST REPORT



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

Specimens received on: 05/07/2022 **Tested on:** 22/7/2022 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 | S | --- | --- | --- | 8.9 x 4.3 x 2.8 | 3605 | 3190 | 38.27 | 41 | 2400 | 13.01 | --- |
| 2 | S | --- | --- | --- | 8.8 x 4.3 x 2.8 | 3480 | 3290 | 37.84 | 55 | 3256 | 5.78 | --- |
| 3 | S | --- | --- | --- | 8.8 x 4.1 x 2.9 | 3555 | 3165 | 36.08 | 55 | 3415 | 12.32 | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| 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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- ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
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Note: Above results pertain to the unsealed samples supplied to the laboratory

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Director/Dy. Director Concrete Laboratory



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

3550
 Dr. Umbreen

To: Mr. Nasir Nadeem
 Head of Department, Design & Construction Department-HO, City Schools (Pvt) Ltd

Project: Bahria Campus Lahore Phase-II

Our Ref. No. CL/CED/ 9386

Dated: 22/7/2022

Test Specification

Your Ref. No. TCS/D&C/HO/001/2026

Dated: 04/07/2022

(---)

COMPRESSION TEST REPORT



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

Specimens received on: 06/07/2022 Tested on: 22/7/2022 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 | AK | --- | --- | --- | 8.7 x 4.3 x 2.9 | 3455 | 3110 | 37.41 | 45 | 2694 | 11.09 | --- |
| 2 | AK | --- | --- | --- | 8.6 x 4.2 x 3 | 3495 | 3160 | 36.12 | 49 | 3039 | 10.6 | --- |
| 3 | AK | --- | --- | --- | 8.8 x 4.2 x 3 | 3505 | 3165 | 36.96 | 47 | 2848 | 10.74 | --- |
| 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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- ** 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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ORIGINAL
 A carbon copy for the report has been retained in the lab for record.

3523
 Dr. Umbreen

To: Mr. Babar Ali
 Construction Manager for Guarantee Engineers (Pvt) Ltd.

Project: Beacon House School System TNS 2.0 Gulberg-III Lahore.

Our Ref. No. CL/CED/ 9387

Dated: 22/7/2022

Test Specification

Your Ref. No. GEPL/TNS2/01/2022

Dated: 04/07/2022

(BS 3921**)

COMPRESSION TEST REPORT



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

Specimens received on: 04/07/2022 **Tested on:** 22/7/2022 **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 | 70 | --- | --- | --- | 8.9 x 4.4 x 2.9 | 3720 | 3285 | 39.16 | 61 | 3489 | 13.24 | --- |
| 2 | 70 | --- | --- | --- | 8.7 x 4.2 x 3 | 3570 | 3290 | 36.54 | 51 | 3126 | 8.51 | --- |
| 3 | 70 | --- | --- | --- | 8.9 x 4.4 x 3.1 | 3900 | 3425 | 39.16 | 51 | 2917 | 13.87 | --- |
| 4 | 70 | --- | --- | --- | 9 x 4.4 x 3 | 3815 | 3435 | 39.6 | 59 | 3337 | 11.06 | --- |
| 5 | 70 | --- | --- | --- | 8.7 x 4.2 x 3 | 3580 | 3200 | 36.54 | 65 | 3985 | 11.88 | --- |
| 6 | 70 | --- | --- | --- | 9 x 4.3 x 3 | 3770 | 3350 | 38.7 | 61 | 3531 | 12.54 | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: Mr. Tanveer Ahmad, CNIC # 33105-34421171

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- ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
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3523
 Dr. Umbreen

To: Mr. Babar Ali
 Construction Manager for Guarantee Engineers (Pvt) Ltd

Project: Beacon House School System TNS 2.0 Gulberg-III Lahore

Our Ref. No. CL/CED/ 9388

Dated: 22/7/2022

Test Specification

Your Ref. No. GEPL/TNS2/08/2022

Dated: 04/07/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 4/07/2022 **Tested on:** 22/7/2022 **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 | Lab No. BH-83 (5000 Psi) | 5 | 6 | 2022 | 6Diax12 | --- | 13.2 | 28.28 | 65 | 5149 | --- | Non Engraved |
| 2 | Lab No. BH-83 (5000 Psi) | 5 | 6 | 2022 | 6Diax12 | --- | 13.8 | 28.28 | 63 | 4990 | --- | Non Engraved |
| 3 | Lab No. BH-83 (5000 Psi) | 5 | 6 | 2022 | 6Diax12 | --- | 13.4 | 28.28 | 57 | 4515 | --- | Non Engraved |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by: Mr. Tanveer Ahmad, CNIC # 33105-34421171

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Director/Dy. Director Concrete Laboratory



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

3582
 Dr. Yousaf

To: DuraFlow Plastics (Pvt) Ltd
 Ferozpur Road, Lahore.

Project: Nil

Our Ref. No. CL/CED/ 9389

Dated: 22/7/2022

Test Specification

Your Ref. No. Nil

Dated: 20/7/2022

(BS 1881-116)

COMPRESSION TEST REPORT



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

Specimens received on: 20/07/2022 Tested on: 22/7/2022 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 | 3000 Psi | 6 | 7 | 2022 | 6x6x6 | --- | 8.4 | 36 | 56 | 3484 | --- | Non Engraved |
| 2 | 3000 Psi | 6 | 7 | 2022 | 6x6x6 | --- | 8.6 | 36 | 56 | 3484 | --- | Non Engraved |
| 3 | 3000 Psi | 6 | 7 | 2022 | 6x6x6 | --- | 8.4 | 36 | 61 | 3796 | --- | Non Engraved |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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ORIGINAL
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3576
 Dr. Yousaf

To: Mr. Rashid Iqbal
 Project Manager, A&R CONSTRUCTION SERVICES

Project: Construction of Commercial Building at Plot No. 318 Revaz Garden Scheme Lahore.

Our Ref. No. CL/CED/ 9390

Dated: 22/7/2022

Test Specification

Your Ref. No. Nil

Dated: 18/7/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 Tested on: 22/7/2022 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 Absorpti on (%) | Remarks |
|---------|----------------------------|---------------|-----|------|--------------|-------------------------|-------------------------|-------------------------------|-----------------------------|--------------------------|-----------------------|--------------|
| | | DD | MM | YYYY | | | | | | | | |
| 1 | Fndn Footing Mix (1: 2: 4) | 9 | 7 | 2022 | 6Diax12 | --- | 13.2 | 28.28 | 35 | 2772 | --- | Non Engraved |
| 2 | Fndn Footing Mix (1: 2: 4) | 9 | 7 | 2022 | 6Diax12 | --- | 13 | 28.28 | 35 | 2772 | --- | Non Engraved |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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Director/Dy. Director Concrete Laboratory



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ORIGINAL
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3585
 Dr. Yousaf

To: Executive Engineer (B&W)
 UVAS, Lahore

Project: Provision of Urgently Needed Female Hostel, Facilities at University of Veterinary & Animal Sciences at Ravi Campus, Pattoki.
 Our Ref. No. CL/CED/ 9391

Dated: 22/7/2022

Test Specification

Your Ref. No. E.E. 755

Dated: 14/7/2022

(BS 1881-116)

COMPRESSION TEST REPORT



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

Specimens received on: **20/07/2022** Tested on: **22/7/2022** 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 | 1st Floor Slab (1:2:4) | 16 | 6 | 2022 | 6x6x6 | --- | 8.8 | 36 | 62 | 3858 | --- | Non Engraved |
| 2 | 1st Floor Slab (1:2:4) | 16 | 6 | 2022 | 6x6x6 | --- | 8.6 | 36 | 61 | 3796 | --- | Non Engraved |
| 3 | 1st Floor Slab (1:2:4) | 16 | 6 | 2022 | 6x6x6 | --- | 8.6 | 36 | 50 | 3111 | --- | 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"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.

3569
 Dr. Yousaf

To: Sub Divisional Officer (Buildings)
 Sub Division Ferozewala

Project: Construction of Judicial Academy at Lahore Kala Shah Kaku Lahore (ADP No. 3272/2020-21)
 Phase II Group No. I (Footings B. Wall)
 Our Ref. No. CL/CED/ 9392

Dated: 22/7/2022

Test Specification

Your Ref. No. 1295/F

Dated: 15/10/2021

(BS 1881-116)

COMPRESSION TEST REPORT



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

Specimens received on: **19/07/2022** Tested on: **22/7/2022** 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 | R.C.C. Ftng/Roofs Slab (1: 2: 4) | 14 | 9 | 2021 | 6x6x6 | --- | 8.2 | 36 | 70 | 4356 | --- | Non Engraved |
| 2 | R.C.C. Ftng/Roofs Slab (1: 2: 4) | 14 | 9 | 2021 | 6x6x6 | --- | 8.2 | 36 | 77 | 4791 | --- | Non Engraved |
| 3 | R.C.C. Ftng/Roofs Slab (1: 2: 4) | 14 | 9 | 2021 | 6x6x6 | --- | 8.2 | 36 | 69 | 4293 | --- | 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"diax12" cylinder) strength at 28 days as compressive strength

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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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3569
 Dr. Yousaf

To: Sub Divisional Officer (Buildings)
 Sub Division Ferozewala

Project: Construction of Judicial Academy at Lahore Kala Shah Kaku Lahore (ADP No. 3272/2020-21)
 Phase II Group No. I (Column Boundary Wall)
 Our Ref. No. CL/CED/ 9393

Dated: 22/7/2022

Test Specification

Your Ref. No. 1375A/F

Dated: 14/12/2021

(BS 1881-116)

COMPRESSION TEST REPORT



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

Specimens received on: **19/07/2022** Tested on: **22/7/2022** 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 | R.C.C.Columns (1: 1.5: 3) | 15 | 11 | 2021 | 6x6x6 | --- | 8 | 36 | 63 | 3920 | --- | Non Engraved |
| 2 | R.C.C.Columns (1: 1.5: 3) | 15 | 11 | 2021 | 6x6x6 | --- | 8 | 36 | 73 | 4542 | --- | Non Engraved |
| 3 | R.C.C.Columns (1: 1.5: 3) | 15 | 11 | 2021 | 6x6x6 | --- | 8 | 36 | 98 | 6098 | --- | 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
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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
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3569
 Dr. Yousaf

To: Sub Divisional Officer (Buildings)
 Sub Division Ferozewala

Project: Construction of Judicial Academy at Lahore Kala Shah Kaku Lahore (ADP No. 3272/2020-21)
 Phase II Group No. I (G.F. Slab Gymnasium)
 Our Ref. No. CL/CED/ 9394

Dated: 22/7/2022

Test Specification

Your Ref. No. 1396/F

Dated: 23/12/2021

(BS 1881-116)

COMPRESSION TEST REPORT



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

Specimens received on: **19/07/2022** Tested on: **22/7/2022** 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 | R.C.C.GF/Roofs Slab (1: 2: 4) | 23 | 11 | 2021 | 6x6x6 | --- | 8.2 | 36 | 69 | 4293 | --- | Non Engraved |
| 2 | R.C.C.GF/Roofs Slab (1: 2: 4) | 23 | 11 | 2021 | 6x6x6 | --- | 8.6 | 36 | 124 | 7716 | --- | Non Engraved |
| 3 | R.C.C.GF/Roofs Slab (1: 2: 4) | 23 | 11 | 2021 | 6x6x6 | --- | 8.2 | 36 | 90 | 5600 | --- | 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/>

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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



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ORIGINAL
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3569
 Dr. Yousaf

To: Sub Divisional Officer (Buildings)
 Sub Division Ferozewala

Project: Construction of Judicial Academy at Lahore Kala Shah Kaku Lahore (ADP No. 3272/2020-21)
 Phase II Group No. I (Column G.F. Gymnasium)
 Our Ref. No. CL/CED/ 9395

Dated: 22/7/2022

Test Specification

Your Ref. No. 1370/F

Dated: 18/11/2021

(BS 1881-116)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 Tested on: 22/7/2022 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 | R.C.C.Columns (1: 1 1/2: 3) | 20 | 10 | 2021 | 6x6x6 | --- | 9 | 36 | 94 | 5849 | --- | Non Engraved |
| 2 | R.C.C.Columns (1: 1 1/2: 3) | 20 | 10 | 2021 | 6x6x6 | --- | 8.6 | 36 | 67 | 4169 | --- | Non Engraved |
| 3 | R.C.C.Columns (1: 1 1/2: 3) | 20 | 10 | 2021 | 6x6x6 | --- | 8.6 | 36 | 105 | 6533 | --- | Non Engraved |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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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.

3577
 Dr. Yousaf

To: Engr. Zaheer ud din Babar
 Deputy General Manager Projects, For Habib Rafiq Engineering (Pvt.) Ltd

Project: Construction of Sky Gardens Tower, Lahore

Our Ref. No. CL/CED/ 9396

Dated: 22/7/2022

Test Specification

Your Ref. No. HRLE/SKG/2022/047

Dated: 19/7/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 **Tested on:** 22/7/2022 **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 | Raft 4th Pour-218 (6000 Psi) | 18 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 104 | 8238 | --- | Non Engraved |
| 2 | Raft 4th Pour-218 (6000 Psi) | 18 | 6 | 2022 | 6Diax12 | --- | 14.2 | 28.28 | 104 | 8238 | --- | Non Engraved |
| 3 | Raft 4th Pour-218 (6000 Psi) | 18 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 108 | 8554 | --- | Non Engraved |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Civil Engineering Department
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ORIGINAL
 A carbon copy for the report has been retained in the lab for record.

3577
 Dr. Yousaf

To: Engr. Zaheer ud din Babar
 Deputy General Manager Projects, For Habib Rafiq Engineering (Pvt.) Ltd

Project: Construction of Sky Gardens Tower, Lahore

Our Ref. No. CL/CED/ 9397

Dated: 22/7/2022

Test Specification

Your Ref. No. HRLE/SKG/2022/045

Dated: 19/7/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 **Tested on:** 22/7/2022 **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 | Trial No. 67 (4500 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 94 | 7446 | --- | Non Engraved |
| 2 | Trial No. 67 (4500 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 88 | 6970 | --- | Non Engraved |
| 3 | Trial No. 67 (4500 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 94 | 7446 | --- | Non Engraved |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Witnessed by:

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Director/Dy. Director Concrete Laboratory



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Civil Engineering Department
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ORIGINAL
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3577
 Dr. Yousaf

To: Engr. Zaheer ud din Babar
 Deputy General Manager Projects, For Habib Rafiq Engineering (Pvt.) Ltd

Project: Construction of Sky Gardens Tower, Lahore

Our Ref. No. CL/CED/ 9398

Dated: 22/7/2022

Test Specification

Your Ref. No. HRLE/SKG/2022/044

Dated: 19/7/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 Tested on: 22/7/2022 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 | Trial No. 66 (4000 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 13.4 | 28.28 | 81 | 6416 | --- | Non Engraved |
| 2 | Trial No. 66 (4000 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 86 | 6812 | --- | Non Engraved |
| 3 | Trial No. 66 (4000 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 13.8 | 28.28 | 89 | 7050 | --- | 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"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.

3577
 Dr. Yousaf

To: Engr. Zaheer ud din Babar
 Deputy General Manager Projects, For Habib Rafiq Engineering (Pvt.) Ltd

Project: Construction of Sky Gardens Tower, Lahore

Our Ref. No. CL/CED/ 9399

Dated: 22/7/2022

Test Specification

Your Ref. No. HRLE/SKG/2022/046

Dated: 19/7/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 Tested on: 22/7/2022 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 | Trial No. 68 (5000 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 106 | 8396 | --- | Non Engraved |
| 2 | Trial No. 68 (5000 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 13.6 | 28.28 | 97 | 7683 | --- | Non Engraved |
| 3 | Trial No. 68 (5000 Psi) | 21 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 98 | 7762 | --- | 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
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Director/Dy. Director Concrete Laboratory



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ORIGINAL
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 Dr. Yousaf

To: Engr. Zaheer ud din Babar
 Deputy General Manager Projects, For Habib Rafiq Engineering (Pvt.) Ltd

Project: Construction of Sky Gardens Tower, Lahore

Our Ref. No. CL/CED/ 9400

Dated: 22/7/2022

Test Specification

Your Ref. No. HRLE/SKG/2022/043

Dated: 19/7/2022

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 19/07/2022 Tested on: 22/7/2022 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 | Trial No. 65 (6000 Psi) | 18 | 6 | 2022 | 6Diax12 | --- | 13.4 | 28.28 | 84 | 6653 | --- | Non Engraved |
| 2 | Trial No. 65 (6000 Psi) | 18 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 96 | 7604 | --- | Non Engraved |
| 3 | Trial No. 65 (6000 Psi) | 18 | 6 | 2022 | 6Diax12 | --- | 14 | 28.28 | 96 | 7604 | --- | Non Engraved |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

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