



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.

9956
 Dr. Umbreen

To: Engr. Aziz Ur Rahman
 Resident Engineer/ER, On the Behalf of ACE-Arts

Project: Residnet Construction Supervision for Construction of Net Zero Energy Building (ACEIP, DLI-8), Lahore

Our Ref. No. CL/CED/ 9157

Dated: 13/8/2025

Test Specification

Your Ref. No. NZEB/ACE/LAB/2025/56

Dated: 21/7/2025

(----)

COMPRESSION TEST REPORT



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

Specimens received on: 12/08/2025 **Tested on:** 13/8/2025 **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	Solid Block	10	6	2025	12 x 4 x 8	---	13.4	48	54	2520	---	---
2	Solid Block	10	6	2025	12 x 4 x 8	---	13.6	48	58	2707	---	---
3	Solid Block	10	6	2025	12 x 4 x 8	---	14.6	48	60	2800	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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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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 Dr Umbreen

To: Engr. Aziz Ur Rahman
 Resident Engineer/ER, On the Behalf of ACE-Arts

Project: Residnet Construction Supervision for Construction of Net Zero Energy Building (ACEIP, DLI-8), Lahore

Our Ref. No. CL/CED/ 9158

Dated: 13/8/2025

Test Specification

Your Ref. No. NZEB/ACE/LAB/2025/59

Dated: 12/08/2025

(----)

COMPRESSION TEST REPORT



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

Specimens received on: 12/08/2025 **Tested on:** 13/8/2025 **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	Solid Block	5	7	2025	12 x 6 x 8	---	21	72	106	3298	---	---
2	Solid Block	5	7	2025	12 x 6 x 8	---	21.4	72	100	3111	---	---
3	Solid Block	5	7	2025	12 x 6 x 8	---	21	72	94	2924	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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)
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Director/Dy. Director Concrete Laboratory



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ORIGINAL
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9963
 Dr. Umbreen

To: Mr. M. Ali Hummzah
 Site Incharge, Swiss Builders, Allama Iqbal Town, Lahore.
Project: Construction of 4-Storey Industrial Building at Industrial Estate Phool Mandi Chowk, Sagiyan Wala ByPass Road, Lahore.
 Our Ref. No. CL/CED/ 9159 Dated: 13/8/2025 Test Specification
 Your Ref. No. Nil Dated: 12/08/2025 (ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 13/8/2025 Tested on: 13/8/2025 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	Column (4000 Psi)	6	8	2025	6Diax12	---	13.6	28.28	28	2218	---	Engraved
2	Column (4000 Psi)	6	8	2025	6Diax12	---	14	28.28	24	1901	---	Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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
- *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
- **** AC1318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

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 Dr. Umbreen

To: Mr. M. Ali Hummzah
 Site Incharge, Swiss Builders, Allama Iqbal Town, Lahore.
Project: Construction of 4-Storey Industrial Building at Industrial Estate Phool Mandi Chowk, Sagiyan Wala ByPass Road, Lahore
Our Ref. No. CL/CED/ 9160 **Dated:** 13/8/2025
Your Ref. No. Nil **Dated:** 12/08/2025

Test Specification
 (ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 13/8/2025 **Tested on:** 13/8/2025 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	Plinth Beam (3000 Psi)	30	7	2025	6Diax12	---	14	28.28	22	1743	---	Engraved
2	Plinth Beam (3000 Psi)	30	7	2025	6Diax12	---	14	28.28	18	1426	---	Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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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 Dr. Umbreen

To: Mr. M. Ali Hummzah
 Site Incharge, Swiss Builders, Allama Iqbal Town, Lahore.
Project: Construction of 4-Storey Industrial Building at Industrial Estate Phool Mandi Chowk, Sagiyan Wala ByPass Road, Lahore.
 Our Ref. No. CL/CED/ 9161 Dated: 13/8/2025 Test Specification
 Your Ref. No. Nil Dated: 12/08/2025 (ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 13/8/2025 Tested on: 13/8/2025 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	Column Pedestal (4000 Psi)	14	7	2025	6Diax12	---	13.6	28.28	45	3564	---	Engraved
2	Column Pedestal (4000 Psi)	14	7	2025	6Diax12	---	13	28.28	55	4356	---	Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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Director/Dy. Director Concrete Laboratory



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ORIGINAL
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9926
 Dr. Umbreen

To: Projects Manager
 Innovative © Construction Company, New Garden Town, Lahore.

Project: Construction of DHA Plaza MB Lahore

Our Ref. No. CL/CED/ 9162

Dated: 13/8/2025

Test Specification

Your Ref. No. ICI/DHA MB 180/02

Dated: 06/08/2025

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 07/08/2025 Tested on: 13/8/2025 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	---	29	6	2025	6Diax12	---	13.2	28.28	36	2851	---	Non Engraved
2	---	29	6	2025	6Diax12	---	13.2	28.28	42	3327	---	Non Engraved
3	---	29	6	2025	6Diax12	---	13.4	28.28	56	4436	---	Non Engraved
4	---	29	6	2025	6Diax12	---	13.6	28.28	56	4436	---	Non Engraved
5	---	4	7	2025	6Diax12	---	14	28.28	74	5861	---	Non Engraved
6	---	4	7	2025	6Diax12	---	13.6	28.28	62	4911	---	Non Engraved
7	---	4	7	2025	6Diax12	---	13.6	28.28	60	4752	---	Non Engraved
8	---	4	7	2025	6Diax12	---	14	28.28	58	4594	---	Non Engraved
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
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Director/Dy. Director Concrete Laboratory



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9922
 Dr Umbreen

To: Assistant Engineer (Civil)
 Asset Management (North), National Grid Company of Pakistan Limited (NGC), GATTI, FSD

Project: Reconstruction of Boundary Wall at 220KV Grid Station NGC Samundari Road Faisalabad.

Our Ref. No. CL/CED/ 9163

Dated: 13/8/2025

Test Specification

Your Ref. No. 211-13

Dated: 31/7/2025

(----)

COMPRESSION TEST REPORT



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

Specimens received on: 06/08/2025 **Tested on:** 13/8/2025 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	BS	---	---	---	8.5 x 4.1 x 3	3165	2820	34.85	32	2057	12.23	---
2	BS	---	---	---	8.5 x 4.1 x 2.9	3215	2850	34.85	36	2314	12.81	---
3	BS	---	---	---	8.7 x 4.2 x 3	3205	2870	36.54	20	1226	11.67	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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Director/Dy. Director Concrete Laboratory



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9893
 Dr Umbreen

To: Mr. Muhammad Zaid Azeez
 Material Engineer, NESPAK (Pvt) Limited

Project: Improvement of Water Supply / Sewerage System in UC-22 Ravi Zone Lahore

Our Ref. No. CL/CED/ 9164

Dated: 13/8/2025

Test Specification

Your Ref. No. NESPAK/WASA/RAVI-II/RE/092

Dated: 28/7/2025

(BS 3921**)

COMPRESSION TEST REPORT



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

Specimens received on: 31/7/2025 **Tested on:** 13/8/2025 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	Arrow	---	---	---	8.9 x 4.3 x 3	3725	3315	38.27	37	2166	12.37	---
2	Arrow	---	---	---	8.8 x 4.3 x 3	3730	3290	37.84	38	2249	13.37	---
3	Arrow	---	---	---	8.9 x 4.3 x 3.1	3780	3355	38.27	37	2166	12.67	---
4	Arrow	---	---	---	9 x 4.3 x 3	3915	3480	38.7	39	2257	12.5	---
5	Arrow	---	---	---	9 x 4.3 x 3.1	3810	3415	38.7	41	2373	11.57	---
6	Arrow	---	---	---	8.9 x 4.3 x 3	3755	3350	38.27	38	2224	12.09	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
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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.

9896
 Dr Umbreen

To: Superintendent
 Central Jail Faisalabad

Project: Sample Testing / Analysis of Material of Correctional Facilities Revamping Program Under G.S. No. 1944 for the Year 2023-24 One at Central Jail Faisalabad (RP)

Our Ref. No. CL/CED/ 9165

Dated: 13/8/2025

Test Specification

Your Ref. No. 19272

Dated: 31/7/2025

(BS 3921)**

COMPRESSION TEST REPORT



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

Specimens received on: 01/08/2025 Tested on: 13/8/2025 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	Machine Made Double Line	---	---	---	8.5 x 4 x 2.6	---	2840	34	32	2108	---	Used Brick
2	Machine Made Double Line	---	---	---	8.7 x 4.3 x 2.7	---	2860	37.41	30	1796	---	Used Brick
3	Machine Made Double Line	---	---	---	8.7 x 4.3 x 2.7	---	2750	37.41	33	1976	---	Unused Brick
4	Machine Made Double Line	---	---	---	8.5 x 4.1 x 2.8	---	2610	34.85	35	2250	---	Unused Brick
5	Machine Made Double Line	---	---	---	8.5 x 4.1 x 2.8	---	2685	34.85	35	2250	---	Unused Brick
6	Machine Made Double Line	---	---	---	8.5 x 4.1 x 2.8	---	2710	34.85	35	2250	---	Unused Brick
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
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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.

9950
 Engr. A. Rehman

To: Radiant Construction Technologies LLP
 54-E, Mohafiz Town, Multan Road, Lahore.

Project: Nil

Our Ref. No. CL/CED/ 9166

Dated: 13/8/2025

Test Specification

Your Ref. No. Nil

Dated: 11/08/2025

(----)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/8/2025 **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	ConTile Bond G	8	8	2025	2 x 2 x 2	---	240	4	4.75	2660	---	Non Engraved
2	ConTile Bond G	8	8	2025	2 x 2 x 2	---	240	4	3	1680	---	Non Engraved
3	ConTile Bond G	8	8	2025	2 x 2 x 2	---	245	4	3.25	1820	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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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
- **** AC1318-08 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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Raft Grid (D to G & 1A to 3))

Our Ref. No. CL/CED/ 9167

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 **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	(4500 Psi)	7	5	2025	6Diax12	---	13	28.28	60	4752	---	Non Engraved
2	(4500 Psi)	7	5	2025	6Diax12	---	13.2	28.28	64	5069	---	Non Engraved
3	(4500 Psi)	7	5	2025	6Diax12	---	13.2	28.28	52	4119	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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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



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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Ramp Slab Third Basement)

Our Ref. No. CL/CED/ 9168

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(4500 Psi)	13	5	2025	6Diax12	---	14	28.28	66	5228	---	Non Engraved
2	(4500 Psi)	13	5	2025	6Diax12	---	13.4	28.28	68	5386	---	Non Engraved
3	(4500 Psi)	13	5	2025	6Diax12	---	13.8	28.28	68	5386	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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



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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Retaining Wall Third Basement)

Our Ref. No. CL/CED/ 9169

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(4500 Psi)	18	5	2025	6Diax12	---	14	28.28	50	3960	---	Non Engraved
2	(4500 Psi)	18	5	2025	6Diax12	---	14	28.28	76	6020	---	Non Engraved
3	(4500 Psi)	18	5	2025	6Diax12	---	14	28.28	64	5069	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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



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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Raft Grid (A to D & 1A to 5))

Our Ref. No. CL/CED/ 9170

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(4500 Psi)	20	5	2025	6Diax12	---	13.2	28.28	66	5228	---	Non Engraved
2	(4500 Psi)	20	5	2025	6Diax12	---	13.6	28.28	56	4436	---	Non Engraved
3	(4500 Psi)	20	5	2025	6Diax12	---	13.8	28.28	64	5069	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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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



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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Third Basement Lift Shear Wall & Column)

Our Ref. No. CL/CED/ 9171

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(6000 Psi)	22	5	2025	6Diax12	---	14	28.28	76	6020	---	Non Engraved
2	(6000 Psi)	22	5	2025	6Diax12	---	14.4	28.28	82	6495	---	Non Engraved
3	(6000 Psi)	22	5	2025	6Diax12	---	14.2	28.28	82	6495	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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



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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Retaining Wall Third Basement Grid (1A to 3))

Our Ref. No. CL/CED/ 9172

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(4500 Psi)	29	5	2025	6Diax12	---	13.8	28.28	62	4911	---	Non Engraved
2	(4500 Psi)	29	5	2025	6Diax12	---	13.4	28.28	62	4911	---	Non Engraved
3	(4500 Psi)	29	5	2025	6Diax12	---	13.6	28.28	56	4436	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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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

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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.

9952
Dr. Umbreen

To: Mr. Naeem Akhtar
Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Slab Third Basement)

Our Ref. No. CL/CED/ 9173

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 Tested on: 13/08/2025 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	(4500 Psi)	3	6	2025	6Diax12	---	13.6	28.28	66	5228	---	Non Engraved
2	(4500 Psi)	3	6	2025	6Diax12	---	13.4	28.28	64	5069	---	Non Engraved
3	(4500 Psi)	3	6	2025	6Diax12	---	13.8	28.28	62	4911	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
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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



Plain and Reinforced Concrete Laboratory
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.

9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Column Third Basement Grid A to D)

Our Ref. No. CL/CED/ 9174

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(6000 Psi)	19	6	2025	6Diax12	---	14.2	28.28	100	7921	---	Non Engraved
2	(6000 Psi)	19	6	2025	6Diax12	---	14.4	28.28	104	8238	---	Non Engraved
3	(6000 Psi)	19	6	2025	6Diax12	---	14.2	28.28	96	7604	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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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



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.

9952
Dr. Umbreen

To: Mr. Naeem Akhtar
Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Lift Shear Wall)

Our Ref. No. CL/CED/ 9175

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 Tested on: 13/08/2025 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	(6000 Psi)	30	5	2025	6Diax12	---	14	28.28	84	6653	---	Non Engraved
2	(6000 Psi)	30	5	2025	6Diax12	---	13.4	28.28	44	3485	---	Non Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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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

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Supervisor (Lab)

Director/Dy. Director Concrete Laboratory



Plain and Reinforced Concrete Laboratory
Civil Engineering Department
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 Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL
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9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Third Basement Lift Shear Wall)

Our Ref. No. CL/CED/ 9176

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(6000 Psi)	28	5	2025	6Diax12	---	14	28.28	78	6178	---	Non Engraved
2	(6000 Psi)	28	5	2025	6Diax12	---	14.4	28.28	82	6495	---	Non Engraved
3	(6000 Psi)	28	5	2025	6Diax12	---	13.4	28.28	52	4119	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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
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9952
 Dr. Umbreen

To: Mr. Naeem Akhtar
 Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Column Third Basement Grid G to D)

Our Ref. No. CL/CED/ 9177

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 **Tested on:** 13/08/2025 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	(6000 Psi)	25	5	2025	6Diax12	---	13.4	28.28	80	6337	---	Non Engraved
2	(6000 Psi)	25	5	2025	6Diax12	---	14.4	28.28	76	6020	---	Non Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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Director/Dy. Director Concrete Laboratory



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University of Engineering and Technology, Lahore, Pakistan
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9952
Dr. Umbreen

To: Mr. Naeem Akhtar
Usman Ibrahim Construction Company.

Project: Construction of Alam Tower. (Third Basement Lift Shear Wall)

Our Ref. No. CL/CED/ 9178

Dated: 13/08/2025

Test Specification

Your Ref. No. Nil

Dated: Nil

(ASTM C39)

COMPRESSION TEST REPORT



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

Specimens received on: 11/08/2025 Tested on: 13/08/2025 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	(6000 Psi)	18	5	2025	6Diax12	---	14	28.28	72	5703	---	Non Engraved
2	(6000 Psi)	18	5	2025	6Diax12	---	14.6	28.28	68	5386	---	Non Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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

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