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.

9270
Dr. Umbreen

To: Mr. Sumair Baloch
CW Manager, Ammar Engineering Solutions (Pvt.) Ltd.

Project: Tawal Project Site ID: NRO25 NORTH 723 (Tower Columns + ODU+ DG pad)

Our Ref. No. CL/CED/ 8002 **Dated: 17/04/2025** **Test Specification**

Your Ref. No. Ammar Engg. Solutions (Pvt.) Ltd./cube/Tawal/02 **Dated: 31/03/2025** **(BS 1881-116)**

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 15/04/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	(1:1.5:3)	24	3	2025	6x6x6	---	8.4	36	36	2240	---	Engraved
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
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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/

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"diax12" 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**

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.

9233
Dr. Umbreen

To: Sub Divisional Officer
Public Health Engg: Sub Division Khushab (M/S Abdullah Enterprises)

Project: Construction of Pump Well, Filter Bed & Clear Water Tank. Provision of Sweet Water at Wildlife Park Jauharabad District Khushab

Our Ref. No. CL/CED/ 8003 Dated: 17/04/2025 Test Specification

Your Ref. No. No.177/KHB Dated: 25/03/2025 (BS 1881-116)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	(1:2:4)	12	3	2025	6x6x6	---	9	36	106	6596	---	Non Engraved
2	(1:2:4)	12	3	2025	6x6x6	---	9.2	36	107	6658	---	Non Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
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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/

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"diax12" 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**

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.

9233
Dr. Umbreen

To: Sub Divisional Officer
Public Health Engg: Sub Division Khushab (M/S Abdullah Enterprises)

Project: Construction of SedimentationTank. Provision of Sweet Water at Wildlife Park Jauharabad District Khushab

Our Ref. No. CL/CED/ 8004 Dated: 17/04/2025 Test Specification

Your Ref. No. No.149/KHB Dated: 10/03/2025 (BS 1881-116)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	(1:2:4)	24	2	2025	6x6x6	---	9	36	132	8213	---	Non Engraved
2	(1:2:4)	24	2	2025	6x6x6	---	9	36	114	7093	---	Non Engraved
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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"diax12" 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**

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.

9232
Dr. Umbreen

To: Eng. M. Imran
Resident Engineer, Master Consulting Engineers (Pvt.) Ltd.

Project: Construction of 07-Storey Residential Block having Minimum 100 Rooms with attached Bathroom Facilities at Gurdwara Janamasthan, Nankana Sahib.

Our Ref. No. CL/CED/ 8005 Dated: 17/04/2025 Test Specification

Your Ref. No. RE/NKB/RCC-50 Dated: 26/03/2025 (BS 1881-116)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	Col. 6th Floor (1:1:2)	1	3	2025	6x6x6	---	8.4	36	118	7342	---	Engraved
2	Col. 6th Floor (1:1:2)	1	3	2025	6x6x6	---	8.6	36	106	6596	---	Engraved
3	Col. 6th Floor (1:1:2)	1	3	2025	6x6x6	---	8.8	36	112	6969	---	Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
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11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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"diax12" 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**

Plain and Reinforced Concrete Laboratory
Civil Engineering Department
University of Engineering and Technology, Lahore. Pakistan
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ORIGINAL
A carbon copy for the report has been retained in the lab for record.

9232
Dr. Umbreen

To: Eng. M. Imran
Resident Engineer, Master Consulting Engineers (Pvt.) Ltd.

Project: Construction of 07-Storey Residential Block having Minimum 100 Rooms with attached Bathroom Facilities at Gurdwara Janamasthan, Nankana Sahib.

Our Ref. No. CL/CED/ 8006 Dated: 17/04/2025 Test Specification

Your Ref. No. RE/NKB/RCC-51 Dated: 26/03/2025 (BS 1881-116)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	Lift/Shear Walls 6th Floor (1:1.5:3)	2	3	2025	6x6x6	---	8.6	36	108	6720	---	Engraved
2	Lift/Shear Walls 6th Floor (1:1.5:3)	2	3	2025	6x6x6	---	8.6	36	110	6844	---	Engraved
3	Lift/Shear Walls 6th Floor (1:1.5:3)	2	3	2025	6x6x6	---	8.4	36	106	6596	---	Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
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11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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"diax12" 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**

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.

9232
Dr. Umbreen

To: Eng. M. Imran
Resident Engineer, Master Consulting Engineers (Pvt.) Ltd.

Project: Construction of 07-Storey Residential Block having Minimum 100 Rooms with attached Bathroom Facilities at Gurdwara Janamasthan, Nankana Sahib.

Our Ref. No. CL/CED/ 8007 Dated: 17/04/2025 Test Specification

Your Ref. No. RE/NKB/RCC-52 Dated: 07/04/2025 (BS 1881-116)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	Arches 6th Floor (1:1.5:3)	12	3	2025	6x6x6	---	8.8	36	122	7591	---	Engraved
2	Arches 6th Floor (1:1.5:3)	12	3	2025	6x6x6	---	8.8	36	114	7093	---	Engraved
3	Arches 6th Floor (1:1.5:3)	12	3	2025	6x6x6	---	8.8	36	114	7093	---	Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
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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/

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"diax12" 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**

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.

9223
Dr. Umbreen

To: Mr. Muhammad Sajjad
Project Incharge

Project: Construction of House No.6, C Block, Model Town Lahore.

Our Ref. No. CL/CED/ 8008 **Dated:** 17/04/2025 **Test Specification**

Your Ref. No. Nil **Dated:** Nil (ASTM C39)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 08/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	6th Floor Slab (3000 Psi)	23	3	2025	6Diax12	---	13.6	28.28	56	4436	---	Non Engraved
2	6th Floor Slab (3000 Psi)	23	3	2025	6Diax12	---	13.8	28.28	62	4911	---	Non Engraved
3	6th Floor Slab (3000 Psi)	23	3	2025	6Diax12	---	13.8	28.28	44	3485	---	Non Engraved
4	6th Floor Slab (3000 Psi)	28	3	2025	6Diax12	---	13.2	28.28	46	3644	---	Non Engraved
5	6th Floor Slab (3000 Psi)	28	3	2025	6Diax12	---	13.6	28.28	50	3960	---	Non Engraved
6	6th Floor Slab (3000 Psi)	28	3	2025	6Diax12	---	13.4	28.28	44	3485	---	Non Engraved
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
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15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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"diax12" 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**

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.

9269
Dr. Umbreen

To: Engr. M Rashid
Site Engineer, Husnain Builders

Project: Construction of LGS Central Park Campus, Lahore.

Our Ref. No. CL/CED/ 8009 **Dated: 17/04/2025** **Test Specification**

Your Ref. No. Nil **Dated: Nil** **(ASTM C39)**

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 15/04/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	---	7	3	2025	6Diax12	---	13	28.28	54	4277	---	Engraved
2	---	7	3	2025	6Diax12	---	12.8	28.28	59	4673	---	Engraved
3	---	22	3	2025	6Diax12	---	13	28.28	56	4436	---	Non Engraved
4	---	22	3	2025	6Diax12	---	13	28.28	52	4119	---	Non Engraved
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
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10	---	---	---	---	---	---	---	---	---	---	---	---
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16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by: Nil

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"diax12" 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**

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.

9239
Dr. Umbreen

To: High Rise Builders
Architects & Engineers Building Construction

Project: Construction of House 327, G3 Johar Town, Lahore.

Our Ref. No. CL/CED/ 8010 **Dated:** 17/04/2025 **Test Specification**

Your Ref. No. Nil **Dated:** 08/04/2025 **(ASTM C39)**

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	3000 Psi	28	3	2025	6Diax12	---	13.4	28.28	34	2693	---	Non Engraved
2	3000 Psi	28	3	2025	6Diax12	---	13	28.28	10	792	---	Non Engraved
3	3000 Psi	28	3	2025	6Diax12	---	13	28.28	11	871	---	Non Engraved
4	---	---	---	---	---	---	---	---	---	---	---	---
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Witnessed by: Nil

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"diax12" 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**

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.

9240
Dr. Umbreen

To: Mr. Waleed
Resident Engineer, GIM Developers

Project: Construction of Plaza at 51 Baber Block, New Garden Town Lahore.

Our Ref. No. CL/CED/ 8011 **Dated:** 17/04/2025 **Test Specification**

Your Ref. No. Nil **Dated:** Nil (ASTM C39)

COMPRESSION TEST REPORT

ONLINE REPORT

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

Specimens received on: 09/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	3000 Psi	21	3	2025	6Diax12	---	13	28.28	24	1901	---	Engraved
2	3000 Psi	21	3	2025	6Diax12	---	12.8	28.28	20	1584	---	Engraved
3	3000 Psi	21	3	2025	6Diax12	---	13.2	28.28	24	1901	---	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/

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"diax12" 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**

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.

9206
Dr. Umbreen

To: Mr. Abid Azim
Resident Engineer, NESPAK, Ravi Zone. Highways and Transportation Engineering Division.

Project: Rehabilitation / Improvement of Street Pavement, Sewerage / Drainage UC 32,33,33,34,35,36,37,38,& 39 Ravi Zone MCL (M/S Mian Javaid & Co.)

Our Ref. No. CL/CED/ 8012 Dated: 17/04/2025 Test Specification

Your Ref. No. 4084/103/LDP/Ravi/04/323 Dated: 24/03/2025 (BS 3921**)

COMPRESSION TEST REPORT

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

Specimens received on: 27/03/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	11	---	---	---	8.8 x 4.2 x 2.9	3700	3330	36.96	33	2000	11.11	---
2	11	---	---	---	8.8 x 4.2 x 3	3730	3340	36.96	36	2182	11.68	---
3	11	---	---	---	8.9 x 4.2 x 2.9	3700	3325	37.38	35	2097	11.28	---
4	11	---	---	---	8.8 x 4.3 x 3	3630	3240	37.84	31	1835	12.04	---
5	11	---	---	---	8.8 x 4.3 x 2.9	3610	3280	37.84	34	2013	10.06	---
6	11	---	---	---	8.8 x 4.3 x 3	3690	3320	37.84	32	1894	11.14	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
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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"diax12" 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**

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.

9226
Dr. Umbreen

To: Sub Divisional Officer
Buildings Sub Division, Sambrial.

Project: Admin Block, Correctional Facilities Revamping Programe one at District Jail Sialkot (NRP) ADP No.2661 for the year 2024-25

Our Ref. No. CL/CED/ 8013 **Dated:** 17/04/2025 **Test Specification**

Your Ref. No. 116/SMBL **Dated:** 14/03/2025 (----)

COMPRESSION TEST REPORT

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

Specimens received on: 08/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	Machine Made Double Line	---	---	---	8.6 x 4.2 x 2.8	2985	2460	36.12	29	1798	21.34	---
2	Machine Made Double Line	---	---	---	8.8 x 4.2 x 2.8	3190	2620	36.96	35	2121	21.76	---
3	Machine Made Double Line	---	---	---	8.7 x 4.1 x 2.8	2860	2385	35.67	34	2135	19.92	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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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"diax12" cylinder) strength at 28 days as compresssive 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**

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.

9166
Dr. Umbreen

To: Engr. Faizan Hussain
Assistant Engineer, B&W Department, UET Lahore.

Project: Rehabiliation of H-Type Residencies AB Colony in UET Lahore.

Our Ref. No. CL/CED/ 8014 **Dated: 17/04/2025** **Test Specification**

Your Ref. No. B&W/AEN/2215 **Dated: 03/03/2025** **(BS 3921**)**

COMPRESSION TEST REPORT

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

Specimens received on: 24/03/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	F-16	---	---	---	8.7 x 4.3 x 3	3685	3355	37.41	---	---	9.84	---
2	F-16	---	---	---	9 x 4.4 x 3	3955	3405	39.6	---	---	16.15	---
3	F-16	---	---	---	8.8 x 4.2 x 3.1	3740	3430	36.96	---	---	9.04	---
4	F-16	---	---	---	9 x 4.4 x 3.1	4090	3540	39.6	---	---	15.54	---
5	F-16	---	---	---	8.8 x 4.3 x 3	3645	3370	37.84	---	---	8.16	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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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"diax12" cylinder) strength at 28 days as compresssive 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**

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.

9166
Dr. Umbreen

To: Engr. Faizan Hussain
Assistant Engineer, B&W Department, UET Lahore.

Project: Rehabiliation of H-Type Residencies AB Colony in UET Lahore.

Our Ref. No. CL/CED/ 8015 **Dated: 17/04/2025** **Test Specification**

Your Ref. No. B&W/AEN/2214 **Dated: 03/03/2025** **(BS 3921**)**

COMPRESSION TEST REPORT

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

Specimens received on: 24/03/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	F-16	---	---	---	8.8 x 4.3 x 3	---	3380	37.84	41	2427	---	---
2	F-16	---	---	---	9 x 4.4 x 3	---	3475	39.6	40	2263	---	---
3	F-16	---	---	---	8.9 x 4.3 x 3	---	3505	38.27	40	2341	---	---
4	F-16	---	---	---	8.8 x 4.4 x 3	---	3450	38.72	39	2256	---	---
5	F-16	---	---	---	9 x 4.4 x 3.1	---	3540	39.6	30	1697	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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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"diax12" 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**

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.

9162
Dr. Umbreen

To: Mr. Muhammad Tufail
Construction Team Leader, Lahore Office

Project: Construction of Middle School Chak No. 74 Waheedabad Khanewal.

Our Ref. No. CL/CED/ 8016 **Dated:** 17/04/2025 **Test Specification**

Your Ref. No. 230.48.1/MT/2 **Dated:** 21/03/2025 (----)

COMPRESSION TEST REPORT

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

Specimens received on: 21/03/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	11	---	---	---	8.8 x 4.3 x 2.9	---	2880	37.84	28	1658	---	Used Brick
2	11	---	---	---	8.9 x 4.3 x 2.9	---	2695	38.27	22	1288	---	Used Brick
3	11	---	---	---	8.8 x 4.2 x 2.9	---	2980	36.96	18	1091	---	Used Brick
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/

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"diax12" 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**

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.

9137
Dr. Umbreen

To: Mr. Bilal Safdar Hussain
Manager Projects, REDO Engineering & Construction (Pvt) Limited.

Project: Infrastructure Works at DIC Plant, Kasur.

Our Ref. No. CL/CED/ 8017 Dated: 17/04/2025 Test Specification

Your Ref. No. QC/TST/2375-004 Dated: 18/03/2025 (BS 3921**)

COMPRESSION TEST REPORT

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

Specimens received on: 18/03/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	PC	---	---	---	8.8 x 4.3 x 2.9	3595	3200	37.84	42	2486	12.34	---
2	PC	---	---	---	8.9 x 4.4 x 3	3690	3290	39.16	32	1830	12.16	---
3	PC	---	---	---	8.8 x 4.3 x 2.8	3535	3120	37.84	31	1835	13.3	---
4	PC	---	---	---	8.8 x 4.3 x 3	3720	3315	37.84	36	2131	12.22	---
5	PC	---	---	---	8.8 x 4.3 x 2.8	3475	3155	37.84	35	2072	10.14	---
6	PC	---	---	---	8.7 x 4.3 x 2.9	3625	3245	37.41	36	2156	11.71	---
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"diax12" 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**

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.

9226
Dr. Umbreen

To: Sub Divisional Officer
Buildings Sub Division, Sambrial.

Project: Modern Hospital, Correctional Facilities Revamping Programe one at District Jail Sialkot (NRP) ADP No.2661 for the year 2024-25

Our Ref. No. CL/CED/ 8018 Dated: 17/04/2025 Test Specification

Your Ref. No. 89/SMBL Dated: 27/02/2025 (----)

COMPRESSION TEST REPORT

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

Specimens received on: 08/04/2025 Tested on: 17/04/2025 in dry/wet condition

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	Machine Made Double Line	---	---	---	8.7 x 4.1 x 2.8	---	2545	35.67	32	2010	---	---
2	Machine Made Double Line	---	---	---	8.7 x 4 x 2.8	---	2450	34.8	33	2124	---	---
3	Machine Made Double Line	---	---	---	8.7 x 4.1 x 2.7	---	2484	35.67	30	1884	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

Witnessed by:

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2. ** 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

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)
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Supervisor (Lab) **Director/Dy. Director Concrete Laboratory**

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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.

9226
Dr. Umbreen

To: Sub Divisional Officer
Buildings Sub Division, Sambrial.

Project: Admin Block, Correctional Facilities Revamping Programe one at District Jail Sialkot (NRP) ADP No.2661 for the year 2024-25

Our Ref. No. CL/CED/ 8019 **Dated:** 17/04/2025 **Test Specification**

Your Ref. No. 26/SMBL **Dated:** 20/01/2025 (----)

COMPRESSION TEST REPORT

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

Specimens received on: 08/04/2025 **Tested on:** 17/04/2025 **in dry/wet condition**

Sr. No.	Mark*	Casting Date* DD	MM	YYYY	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
1	Machine Made Double Line	---	---	---	8.6 x 4.2 x 2.8	---	2530	36.12	31	1922	---	---
2	Machine Made Double Line	---	---	---	8.8 x 4.2 x 2.8	---	2750	36.96	35	2121	---	---
3	Machine Made Double Line	---	---	---	8.6 x 4.2 x 2.7	---	2540	36.12	34	2109	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---

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