Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10573

To: **Engr. Muhammad Abdullah (Executive Engineer)** Dr. Umbreen
B&W Deptt., UET Lahore
Project: Workshop and Design Center at UET Lahore

Our Ref. No. CL/CED/ 868 Dated: 24-09-20

Your Ref. No. B&W/AEN/1808 Dated: 17-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 18-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)	Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Brick Tile		9.3x4.4x1.6	1912	40.92			
2	Brick Tile		9.2x4.4x1.6	1836	40.48			
3	Brick Tile		9.3x4.5x1.6	1862	41.85			
4	Brick Tile		9.2x4.4x1.6	1886	40.48			
5	Brick Tile		9.2x4.5x1.6	1860	41.4			
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10578

To: **Azam Wahab (Construction Manager)** Dr.Mazhar Saleem
Akhunzada Associates (Pvt.) Ltd. Peshawar
Project: Construction of 01 No. of 3 Storey Building in Sheikhupura in Punjab Province, Pakistan

Our Ref. No. CL/CED/ 869 Dated: 24-09-20

Your Ref. No. AA/UNOPS/UET/012 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 21-09-20 Tested on: 22-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Plinth Beams	13	9	2020	6Diax12	14	28.28	43	3410	Non Engraved
2	Plinth Beams	13	9	2020	6Diax12	14	28.28	47	3730	Non Engraved
3	Plinth Beams	13	9	2020	6Diax12	13.8	28.28	47	3730	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10580

To: **Muhammad Tahir Yaseen** Dr.Mazhar Saleem
Elco Enterprises, Lahore
Project: Construction of Allied Bank Limited Located at High Street Branch, Sahiwal (0532) (Plinth Beams & Cash Vault Room)

Our Ref. No. CL/CED/ 870 Dated: 24-09-20

Your Ref. No. Nil Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 21-09-20 Tested on: 22-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	3000 Psi	26	8	2020	6Diax12	13	28.28	55	4360	Non Engraved
2	3000 Psi	26	8	2020	6Diax12	13.8	28.28	49	3890	Non Engraved
3	3000 Psi	26	8	2020	6Diax12	13.6	28.28	55	4360	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10584

To: **Tahir Mehmood** Dr.Mazhar Saleem
Hasnain Builders, Lahore
Project: G.F Slab at Old City School Gawal Mandi Lahore

Our Ref. No. CL/CED/ 871 Dated: 24-09-20

Your Ref. No. Nil Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 21-09-20 Tested on: 22-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	G.F Slab (3000 Psi)	23	8	2020	6Diax12	13.4	28.28	35	2780	Non Engraved
2	G.F Slab (3000 Psi)	23	8	2020	6Diax12	13.4	28.28	33	2620	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10601

To: **Mian Shabeer** Engr. Aamina
DHA, Lahore
Project: Japan Center, G.E.C.H.S Near Pindi Stop Peco Road Lahore

Our Ref. No. CL/CED/ 872 Dated: 24-09-20

Your Ref. No. Nil Dated: 23-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 23-09-20 Tested on: 24-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	3000 Psi	12	9	2020	6Diax12	14	28.28	23	1830	Non Engraved
2	4000 Psi	12	9	2020	6Diax12	14	28.28	42	3330	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10589

To: **Sub Divisional Officer** Dr. Aqsa
Buildings Sub Division No.15, Lahore
Project: Construction of New Administration Block in the Premises of Lahore High Court Lahore (Roof Slab of 5th Floor)

Our Ref. No. CL/CED/ 873 Dated: 24-09-20

Your Ref. No. 1011 Dated: 22-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 2 : 4)	22	8	2020	6x6x6	8.6	36	89	5540	Non Engraved
2	(1 : 2 : 4)	22	8	2020	6x6x6	8.4	36	100	6230	Non Engraved
3	(1 : 2 : 4)	22	8	2020	6x6x6	8.6	36	86	5360	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10592

To: **Deputy Director (Development & Maintenance)** Dr. Aqsa
Punjab Land Record Authority, Govt of the Punjab
Project: Construction of PLRA Arazi Record Centers Across Punjab (Lot-2 Central Region)

Our Ref. No. CL/CED/ 874-1 of 2 Dated: 24-09-20

Your Ref. No. PLRA/DD.(C.W)/QP/2020/09/09 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)	Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Rectangular Grey		7.7x3.8x2.3	2731	29.26	80	6130	
2	Rectangular Grey		7.7x3.8x2.3	2743	29.26	125	9570	
3	Rectangular Grey		7.7x3.8x2.3	2706	29.26	130	9960	
4	Rectangular Grey		7.7x3.8x2.3	2705	29.26	119	9110	
5	Rectangular Grey		7.7x3.8x2.3	2684	29.26	93	7120	
6	Rectangular Grey		7.7x3.8x2.3	2748	29.26	122	9340	
7	Rectangular Grey		7.7x3.8x2.3	2720	29.26	110	8430	
8	Rectangular Grey		7.7x3.8x2.3	2820	29.26	141	10800	
9	Rectangular Grey		7.7x3.8x2.3	2771	29.26	113	8660	
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: **M. Furqan (Project Manager)**
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52252, Drill Pier / BTS PAD

Our Ref. No. CL/CED/ 875 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/688 Dated: 13-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	6	9	2020	6x6x6	9	36	81	5040	Non Engraved
2	(1 : 1.5 : 3)	6	9	2020	6x6x6	8.8	36	83	5170	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: **M. Furqan (Project Manager)**
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52670, Column / BTS PAD

Our Ref. No. CL/CED/ 876 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/695 Dated: 20-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	13	9	2020	6x6x6	8.4	36	88	5480	Non Engraved
2	(1 : 1.5 : 3)	13	9	2020	6x6x6	8.6	36	71	4420	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: M. Furqan (Project Manager)
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52784, Raft Foundation

Our Ref. No. CL/CED/ 877 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/696 Dated: 19-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	12	9	2020	6x6x6	8.4	36	81	5040	Non Engraved
2	(1 : 1.5 : 3)	12	9	2020	6x6x6	8.6	36	81	5040	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **Imran Akhtar (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-43010, Pier Foundation

Our Ref. No. CL/CED/ 878 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/691 Dated: 12-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	5	9	2020	6x6x6	8.8	36	79	4920	Non Engraved
2	(1 : 1.5 : 3)	5	9	2020	6x6x6	8.4	36	75	4670	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **Imran Akhtar (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-43042, Pier Foundation

Our Ref. No. CL/CED/ 879 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/690 Dated: 16-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	9	9	2020	6x6x6	8	36	68	4240	Non Engraved
2	(1 : 1.5 : 3)	9	9	2020	6x6x6	8.4	36	89	5540	Non Engraved
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supervisor(lab) **Director/Dy. Director Concrete Laboratory**

Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **M. Furqan (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-51288, Drill Pier / BTS PAD

Our Ref. No. CL/CED/ 880 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/694 Dated: 16-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	9	9	2020	6x6x6	8.4	36	75	4670	Non Engraved
2	(1 : 1.5 : 3)	9	9	2020	6x6x6	8.4	36	81	5040	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: M. Furqan (Project Manager)
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52670, Raft Foundation

Our Ref. No. CL/CED/ 881 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/695 Dated: 18-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	11	9	2020	6x6x6	8.2	36	71	4420	Non Engraved
2	(1 : 1.5 : 3)	11	9	2020	6x6x6	8.6	36	77	4800	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **M. Furqan (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52784, Column / BTS PAD

Our Ref. No. CL/CED/ 882 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/697 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	14	9	2020	6x6x6	8.6	36	77	4800	Non Engraved
2	(1 : 1.5 : 3)	14	9	2020	6x6x6	8.2	36	67	4170	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **M. Furqan (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52651, Raft Foundation

Our Ref. No. CL/CED/ 883 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/698 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	14	9	2020	6x6x6	8.4	36	85	5290	Non Engraved
2	(1 : 1.5 : 3)	14	9	2020	6x6x6	8.4	36	83	5170	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **M. Furqan (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52710, Drill Pier / BTS PAD

Our Ref. No. CL/CED/ 884 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/683 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	24	8	2020	6x6x6	8.8	36	98	6100	Non Engraved
2	(1 : 1.5 : 3)	24	8	2020	6x6x6	8.4	36	81	5040	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: **Imran Akhtar (Project Manager)**
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-43153, Pier Foundation

Our Ref. No. CL/CED/ 885 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/684 Dated: 15-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	18	8	2020	6x6x6	9	36	124	7720	Non Engraved
2	(1 : 1.5 : 3)	18	8	2020	6x6x6	8.6	36	92	5730	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: Imran Akhtar (Project Manager)
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-42957, Pier Foundation

Our Ref. No. CL/CED/ 886 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/685 Dated: 18-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	21	8	2020	6x6x6	8.4	36	102	6350	Non Engraved
2	(1 : 1.5 : 3)	21	8	2020	6x6x6	8.2	36	86	5360	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **M. Furqan (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52600, Drill Pier / BTS PAD

Our Ref. No. CL/CED/ 887 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/680 Dated: 19-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	22	8	2020	6x6x6	8.4	36	88	5480	Non Engraved
2	(1 : 1.5 : 3)	22	8	2020	6x6x6	8.4	36	83	5170	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

Dr. Aqsa

To: **Imran Akhtar (Project Manager)**
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8405, ODU PAD

Our Ref. No. CL/CED/ 888 Dated: 24-09-20

Your Ref. No. CME/Cubes/LongHaul/672 Dated: 21-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	24	7	2020	6x6x6	9	36	108	6720	Non Engraved
2	(1 : 1.5 : 3)	24	7	2020	6x6x6	8.8	36	92	5730	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **Imran Akhtar (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8595, ODU PAD

Our Ref. No. CL/CED/ 889 Dated: 24-09-20

Your Ref. No. CME/Cubes/LongHaul/675 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	24	8	2020	6x6x6	8.8	36	100	6230	Non Engraved
2	(1 : 1.5 : 3)	24	8	2020	6x6x6	8.4	36	75	4670	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

10588

To: **M. Furqan (Project Manager)** Dr. Aqsa
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-52781, Drill Pier / BTS PAD

Our Ref. No. CL/CED/ 890 Dated: 24-09-20

Your Ref. No. CME/Cubes/CMPAK/681 Dated: 21-09-20

COMPRESSION TEST REPORT

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

Specimens received on: 22-09-20 Tested on: 23-09-20 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	(1 : 1.5 : 3)	24	8	2020	6x6x6	8.6	36	86	5360	Non Engraved
2	(1 : 1.5 : 3)	24	8	2020	6x6x6	8.4	36	113	7040	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing_reports&id=6

* 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 comprerssive 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**