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

10391

Dr. M. Yousaf

To: **M. Furqan (Project Manager)**
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-51165, Complete Foundation

Our Ref. No. CL/CED/ 591 Dated: 13-08-20

Your Ref. No. CME/Cube/CMPAK/627 Dated: 16-04-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	19	3	2020	6x6x6	8.4	36	81	5040	Non Engraved
2	(1 : 1.5 : 3)	19	3	2020	6x6x6	8	36	104	6480	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-42960, Pier Foundation

Our Ref. No. CL/CED/ 592 Dated: 13-08-20

Your Ref. No. CME/Cube/CMPAK/631 Dated: 24-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	17	7	2020	6x6x6	8.2	36	98	6100	Non Engraved
2	(1 : 1.5 : 3)	17	7	2020	6x6x6	8.4	36	115	7160	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

10391

Dr. M. Yousaf

To: Imran Akhtar (Project Manager)
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-42605, Pier Foundation

Our Ref. No. CL/CED/ 593 Dated: 13-08-20

Your Ref. No. CME/Cube/CMPAK/632 Dated: 29-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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	7	2020	6x6x6	8.4	36	70	4360	Non Engraved
2	(1 : 1.5 : 3)	22	7	2020	6x6x6	8.6	36	110	6850	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-43096, Raft Foundation

Our Ref. No. CL/CED/ 594 Dated: 13-08-20

Your Ref. No. CME/Cube/CMPAK/633 Dated: 29-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	1	7	2020	6x6x6	8	36	63	3920	Non Engraved
2	(1 : 1.5 : 3)	1	7	2020	6x6x6	8	36	98	6100	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

10391

Dr. M. Yousaf

To: Imran Akhtar (Project Manager)
CM Engineering (Pvt.) Ltd. Lahore
Project: CMPAK, Site ID-43096, Column

Our Ref. No. CL/CED/ 595 Dated: 13-08-20

Your Ref. No. CME/Cube/CMPAK/634 Dated: 30-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	2	7	2020	6x6x6	8	36	100	6230	Non Engraved
2	(1 : 1.5 : 3)	2	7	2020	6x6x6	8.4	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-9473, Odu Pad

Our Ref. No. CL/CED/ 596 Dated: 13-08-20

Your Ref. No. CME/Cube/LongHaul/635 Dated: 30-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	2	7	2020	6x6x6	8.4	36	101	6290	Non Engraved
2	(1 : 1.5 : 3)	2	7	2020	6x6x6	8.2	36	98	6100	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8615, Odu Pad

Our Ref. No. CL/CED/ 597 Dated: 13-08-20

Your Ref. No. CME/Cube/LongHaul/642 Dated: 04-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	7	7	2020	6x6x6	8.2	36	111	6910	Non Engraved
2	(1 : 1.5 : 3)	7	7	2020	6x6x6	8.2	36	98	6100	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-9424, Odu Pad

Our Ref. No. CL/CED/ 598 Dated: 13-08-20

Your Ref. No. CME/Cube/LongHaul/643 Dated: 28-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	30	6	2020	6x6x6	8.4	36	99	6160	Non Engraved
2	(1 : 1.5 : 3)	30	6	2020	6x6x6	8	36	91	5670	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-50127, Odu Pad

Our Ref. No. CL/CED/ 599 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/644 Dated: 31-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	3	7	2020	6x6x6	8	36	81	5040	Non Engraved
2	(1 : 1.5 : 3)	3	7	2020	6x6x6	8	36	50	3120	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8180, Odu Pad

Our Ref. No. CL/CED/ 600 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/646 Dated: 31-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	3	7	2020	6x6x6	8	36	103	6410	Non Engraved
2	(1 : 1.5 : 3)	3	7	2020	6x6x6	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8670, Odu Pad

Our Ref. No. CL/CED/ 601 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/648 Dated: 04-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	7	7	2020	6x6x6	8	36	94	5850	Non Engraved
2	(1 : 1.5 : 3)	7	7	2020	6x6x6	8	36	76	4730	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-9521, Odu Pad

Our Ref. No. CL/CED/ 602 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/650 Dated: 03-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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	7	2020	6x6x6	8	36	73	4550	Non Engraved
2	(1 : 1.5 : 3)	6	7	2020	6x6x6	8	36	99	6160	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-3114, Odu Pad

Our Ref. No. CL/CED/ 603 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/651 Dated: 05-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	8	7	2020	6x6x6	9	36	80	4980	Non Engraved
2	(1 : 1.5 : 3)	8	7	2020	6x6x6	8.2	36	103	6410	Non Engraved
3										
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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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8391, Odu Pad

Our Ref. No. CL/CED/ 604 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/653 Dated: 28-07-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	30	6	2020	6x6x6	8.4	36	89	5540	Non Engraved
2	(1 : 1.5 : 3)	30	6	2020	6x6x6	9	36	59	3680	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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** BS3921 requires average of ten clay brick samples for crushing strength and water absorption
*** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
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Note: Above results pertain to the unsealed samples supplied to the laboratory
The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). 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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8508, Odu Pad

Our Ref. No. CL/CED/ 605 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/654 Dated: 01-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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)	4	7	2020	6x6x6	8.6	36	73	4550	Non Engraved
2	(1 : 1.5 : 3)	4	7	2020	6x6x6	8.4	36	91	5670	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

10391

To: **Imran Akhtar (Project Manager)** Dr. M. Yousaf
CM Engineering (Pvt.) Ltd. Lahore
Project: Long Haul & Metro, Site ID-8256, Odu Pad

Our Ref. No. CL/CED/ 606 Dated: 13-08-20

Your Ref. No. CME/Cubes/LongHaul/655 Dated: 06-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 06-08-20 Tested on: 07-08-20 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	7	2020	6x6x6	9	36	89	5540	Non Engraved
2	(1 : 1.5 : 3)	9	7	2020	6x6x6	8.4	36	110	6850	Non Engraved
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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
**** 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

10395

To: **Muhammad Saleem (GM)** Dr. Umbreen
Professional Construction Services (Pvt.) Ltd. Lahore
Project: Nutribel Pvt. Ltd. at Sundar Industrial Estate Lahore

Our Ref. No. CL/CED/ 607 Dated: 13-08-20

Your Ref. No. PCS/20/Eng48-C Dated: 10-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 10-08-20 Tested on: 12-08-20 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	1st Floor Slab	30	7	2020	6x6x6	9	36	41	2560	Non Engraved
2	1st Floor Slab	30	7	2020	6x6x6	9	36	29	1810	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

10395

To: **Muhammad Saleem (GM)** Dr. Umbreen
Professional Construction Services (Pvt.) Ltd. Lahore
Project: Nutribel Pvt. Ltd. at Sundar Industrial Estate Lahore

Our Ref. No. CL/CED/ 608 Dated: 13-08-20

Your Ref. No. PCS/20/Eng48-B Dated: 10-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 10-08-20 Tested on: 12-08-20 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	1st Floor Slab	29	7	2020	6x6x6	9	36	47	2930	Non Engraved
2	1st Floor Slab	29	7	2020	6x6x6	9	36	45	2800	Non Engraved
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* 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

10395

To: **Muhammad Saleem (GM)** Dr. Umbreen
Professional Construction Services (Pvt.) Ltd. Lahore
Project: Nutribel Pvt. Ltd. at Sundar Industrial Estate Lahore

Our Ref. No. CL/CED/ 609 Dated: 13-08-20

Your Ref. No. PCS/20/Eng48-A Dated: 10-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 10-08-20 Tested on: 12-08-20 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	1st Floor Slab	29	7	2020	6x6x6	9.2	36	45	2800	Non Engraved
2	1st Floor Slab	29	7	2020	6x6x6	9	36	49	3050	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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*** 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

10399

To: **Altaf Hussain (M.E)** Dr. Umbreen
M/s AS Enterprises
Project: Style Textile Raiwand Road (Chak # 65)

Our Ref. No. CL/CED/ 610 Dated: 13-08-20

Your Ref. No. USD/ASE/25 Dated: 11-08-20

COMPRESSION TEST REPORT

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

Specimens received on: 11-08-20 Tested on: 12-08-20 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	C20 (482 D)	14	7	2020	6x6x6	8.6	36	73	4550	Non Engraved
2	C20 (482 E)	14	7	2020	6x6x6	8.6	36	75	4670	Non Engraved
3	C20 (482 F)	14	7	2020	6x6x6	8.8	36	69	4300	Non Engraved
4	C30 (481 D)	14	7	2020	6x6x6	9	36	100	6230	Non Engraved
5	C30 (481 E)	14	7	2020	6x6x6	8.8	36	104	6480	Non Engraved
6	C30 (481 F)	14	7	2020	6x6x6	9	36	100	6230	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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*** 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**