



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

To: Sub Divisional Officer
Public Health Engg. Sub Division Kabirwala.
Project: Provision of Drain Soling, Culverts etc. to Different Abadies of PP-212 Kabirwala District Khanewala
Package-III (10/15).

9959
Dr. M. Yousaf

Our Ref. No. CL/CED/ 9962 Dated: 03-03-20
Your Ref. No. SDO/KBA/67 Dated: 15-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-20 Tested on: 27-02-20 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	11				8.6x4.0x2.7	2537	34.4	35	2250	
2	11				8.6x4.0x2.7	2668	34.4	24	1540	
3	11				8.6x4.1x2.8	2702	35.26	24	1500	
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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 compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory
The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

supervisor(lab) Director/Dy. Director Concrete Laboratory



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

To: Sub Divisional Officer
Public Health Engg. Sub Division Kabirwala.
Project: Provision of Drain Soling, Culverts etc. to Different Abadies of PP-212 Kabirwala District Khanewala
Package-III (9/15).

9959
Dr. M. Yousaf

Our Ref. No. CL/CED/ 9963 Dated: 03-03-20
Your Ref. No. SDO/KBA/65 Dated: 15-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-20 Tested on: 27-02-20 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	11				8.7x4.1x2.7	2541	35.67	24	1490	Used
2	11				8.6x4.0x2.7	2529	34.4	30	1930	Used
3	11				8.6x4.1x2.8	2584	35.26	27	1690	used
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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

To: Sub Divisional Officer
Public Health Engg. Sub Division Kabirwala.
Project: Provision of Drain Soling, Culverts etc. to Different Abadies of PP-212 Kabirwala District Khanewala
Package-III (11/15).

9959
Dr. M. Yousaf

Our Ref. No. CL/CED/ 9964 Dated: 03-03-20
Your Ref. No. SDO/KBA/69 Dated: 15-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-20 Tested on: 27-02-20 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	1000		8.8x4.4x2.8	2404	38.72	29	1660	
2	1000		8.8x4.3x2.8	2407	37.84	16	940	
3	1000		8.8x4.4x2.8	2421	38.72	19	1090	
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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

To: For S & S Enterprises.
Suit No.2, First Floor, Jaddah Tower, G-1 Market, Johar Town, Lahore.
Project: Construction of Extension of Shed No.4 for Installation of 18x New Jacquard Loom NCL Weaving.

9964
Dr. Aqsa

Our Ref. No. CL/CED/ 9965 Dated: 03-03-20
Your Ref. No. NCL-1/3910 Dated: 18-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 18-02-20 Tested on: 27-02-20 in dry/wet condition

Sr. No.	Mark*	Casting Date*			Size (in)	Weight (lbs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
		/Wet Weight (gms)								
1	Main Slab Grid 47 to 52 (Ca to Da)	19	2	2020	6x6x6	8.4	36	31	1900	Engraved
2	Main Slab Grid 47 to 52 (Ca to Da)	19	2	2020	6x6x6	8.2	36	34	2090	Engraved
3	Main Slab Grid 47 to 50 (A to Ca)	22	1	2020	6x6x6	8.2	36	59	3620	Engraved
4	Main Slab Grid 47 to 50 (A to Ca)	22	1	2020	6x6x6	8.4	36	54	3310	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

9973
Dr. Aqsa

To: Altaf Hussain, M.E
A S Enterprises. (Consultant: AA Associates).
Project: Style Textile Mill Manga.

Our Ref. No. CL/CED/ 9966 Dated: 03-03-20
Your Ref. No. USD/ASE/20 Dated: 19-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 19-02-20 Tested on: 27-02-20 in dry/wet condition

Sr. No.	Mark*	Casting Date*			Size (in)	Weight (lbs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
		/Wet Weight (gms)								
1	Slab (C-20)	22	1	2020	6x6x6	8.2	36	72	4410	Non Engraved
2	Slab (C-20)	22	1	2020	6x6x6	8.2	36	77	4720	Non Engraved
3	Slab (C-20)	22	1	2020	6x6x6	8.2	36	73	4470	Non Engraved
4	Column (C-30)	22	1	2020	6x6x6	8.4	36	94	5760	Non Engraved
5	Column (C-30)	22	1	2020	6x6x6	8.2	36	85	5210	Non Engraved
6	Column (C-30)	22	1	2020	6x6x6	8.2	36	84	5150	Non Engraved
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

9974
Dr. Aqsa

To: **Altaf Hussain, M.E**
A S Enterprises. (Consultant: AA Associates).
Project: Style Textile Raiwand

Our Ref. No. CL/CED/ 9967 Dated: 03-03-20
Your Ref. No. USD/ASE/18 Dated: 19-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 19-02-20 Tested on: 27-02-20 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	Slab (C-20)	22	1	2020	6x6x6	8.1	36	82	5020	Non Engraved
2	Slab (C-20)	22	1	2020	6x6x6	8.2	36	59	3620	Non Engraved
3	Slab (C-20)	22	1	2020	6x6x6	8.2	36	80	4900	Non Engraved
4	Column (C-30)	22	1	2020	6x6x6	8.4	36	85	5210	Non Engraved
5	Column (C-30)	22	1	2020	6x6x6	8.2	36	84	5150	Non Engraved
6	Column (C-30)	22	1	2020	6x6x6	8.4	36	92	5640	Non Engraved
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Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
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Phone Nos. 042-99029202, 042-99029217

9966
Dr. Aqsa

To: **Abad Ur Rehman, Procurement Manager**
Amanah Mall, Model Town, Lahore.
Project: Construct Some Offices for Carrefour Amanah Mall at our Lower Ground Floor.

Our Ref. No. CL/CED/ 9968 Dated: 03-03-20
Your Ref. No. Nil Dated: 18-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 18-02-20 Tested on: 27-02-20 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	No.1				8.8x4.4x2.9	3194	38.72	36	2050	
2	No.1				8.8x4.4x2.9	3161	38.72	18	1030	
3	No.1				8.8x4.3x2.9	3197	37.84	35	2040	
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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

9981

To: (Zaheer-Ud-Din Baber), Sub Divisional Officer
Buildings Sub Division No.4, Lahore.
Project: Construction of 02-Additional Class Room in Govt. Girls Primary School Harpalke Lahore Cantt.

Dr. M. Yousaf

Our Ref. No. CL/CED/ 9969 Dated: 03-03-20
Your Ref. No. 893/GH Dated: 13-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 19-02-20 Tested on: 27-02-20 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	MD				8.8x4.4x2.8	3157	38.72	33	1880	
2	MD				8.8x4.4x2.8	3161	38.72	37	2110	
3	MD				8.8x4.4x2.9	3189	38.72	34	1940	
4	MD				8.7x4.3x2.8	3167	37.41	33	1950	
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Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

9983
Dr. Aqsa

To: **Municipal Officer (I&S)**
Municipal Committee, Toba Tek Singh.
Project: Improvement RCC Sewer, Tuff Pavers, Soling, Re-Soling Mouhallah Ghoushala District Toba Tek Singh.

Our Ref. No. CL/CED/ 9970 Dated: 03-03-20

Your Ref. No. 120/ MO (I&S) / MC/ TT Sg. Dated: 18-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 20-02-20 Tested on: 27-02-20 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	NM				8.8x4.3x2.8	3021	37.84	24	1400	
2	NM				8.8x4.3x2.8	3009	37.84	30	1750	
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supervisor(lab) Director/Dy. Director Concrete Laboratory



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

To: Engr. Talha Maqbool Ahmed, Resident Engineer
Velosi Integrity & Safety Pakistan (Pvt.) Ltd. (M/S ENCORM Engineering)
Project: Design & Supervisory Services to PMIU & School Councils/Deas for the Infrastructure Development & Rehabilitation of 100 Model Schools.

9984
Dr. Aqsa

Our Ref. No. CL/CED/ 9971 Dated: 03-03-20
Your Ref. No. PMIU/LHR/CS-02 Dated: 19-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 20-02-20 Tested on: 03-03-20 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				7.8x3.9x2.3	2750	30.42	22	1600	
2	Rectangular Grey				7.8x3.9x2.3	2649	30.42	26	1890	
3	Rectangular Grey				7.8x3.9x2.3	2844	30.42	20	1450	
4	Rectangular Red				7.8x3.9x2.3	2877	30.42	47	3410	
5	Rectangular Red				7.8x3.9x2.3	2464	30.42	47	3410	
6	Rectangular Red				7.8x3.9x2.3	2702	30.42	39	2830	
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Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

To: Sub Divisional Officer
Public Health Engg: Sub Division, Kabirwala
Project:Constt. of Drain, Brick Pavement, Tuff Tiles, Sullage Carrier & RCC Culverts Chak No.9/GH, 10/GH, 11/GH,12/GH,22/GH & 25/GH UC. No. 40 & Basti Haveli Koranga UC. No.38 Tehsil Kabirwala Distt. Khanewal

9959
Dr. Aqsa

Our Ref. No. CL/CED/ 9972 Dated: 03-03-20
Your Ref. No. SDO/KBA/61 Dated: 15-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-20 Tested on: 03-03-20 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				7.8x3.8x2.3	2475	29.64	75	5580	
2	Rectangular Grey				7.8x3.8x2.3	2601	29.64	44	3280	
3	Rectangular Grey				7.8x3.8x2.3	2714	29.64	84	6250	
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Plain and Reinforced Concrete Laboratory
Department of Civil Engineering
University of Engineering and Technology, Lahore
Phone Nos. 042-99029202, 042-99029217

To: Sub Divisional Officer
Public Health Engg: Sub Division, Kabirwala
Project: Constt. of Soling, Tuff Tiles, Drains, Sullage Carrier & RCC Culverts in PP-204, Union Council Kot Bahadar, Bilawal pur, Kohi Wala, Tehsil Kabirwala Distt. Khanewal (5/9)

9959
Dr. Aqsa

Our Ref. No. CL/CED/ 9973 Dated: 03-03-20
Your Ref. No. SDO/KBA/63 Dated: 15-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 17-02-20 Tested on: 03-03-20 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 Red				7.8x3.8x2.3	2626	29.64	48	3570	
2	Rectangular Red				7.8x3.8x2.3	2799	29.64	79	5880	
3	Rectangular Grey				7.8x3.8x2.3	2748	29.64	101	7510	
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16										

Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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 compressive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory
The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients). The test results are recommended to be interpreted in the light of above factors by the engineer.

supervisor(lab) Director/Dy. Director Concrete Laboratory



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

To: **Waqas Ali**
Variant, 25-t Gulberg 2, Lahore
Project: Lift Walls Columns, Share Wall (Grid E, Line -1 to -3)

9980
Dr. Aqsa

Our Ref. No. CL/CED/ 9974 Dated: 03-03-20
Your Ref. No. VA/23/153 Dated: 19-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 20-02-20 Tested on: 27-02-20 in dry/wet condition

Sr. No.	Mark*	Casting Date*			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
		/Wet Weight (gms)								
1		9	1	2020	6Diax12	13	28.28	42	3280	Non Engraved
2		9	1	2020	6Diax12	13	28.28	47	3670	Non Engraved
3		9	1	2020	6Diax12	13.2	28.28	64	4990	Non Engraved
4										
5										
6										
7										
8										
9										
10										
11										
12										
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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

9980
Dr. Aqsa

To: **Waqas Ali**
Variant, 25-t Gulberg 2, Lahore
Project: Column C5, Grid (Grid F to G, Line -1 to -3)

Our Ref. No. CL/CED/ 9975 Dated: 03-03-20
Your Ref. No. VA/23/154 Dated: 19-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 20-02-20 Tested on: 27-02-20 in dry/wet condition

Sr. No.	Mark*	Casting Date*			Size (in)	Weight (lbs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
		/Wet Weight (gms)								
1		15	1	2020	6Diax12	13.6	28.28	97	7560	Non Engraved
2		15	1	2020	6Diax12	13.8	28.28	84	6550	Non Engraved
3		15	1	2020	6Diax12	13.8	28.28	63	4910	Non Engraved
4										
5										
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7										
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

To: **Waqas Ali**
Variant, 25-t Gulberg 2, Lahore
Project:

9980
Dr. Aqsa

Our Ref. No. CL/CED/ 9976 Dated: 03-03-20
Your Ref. No. VA/23/152 Dated: 19-02-20

COMPRESSION TEST REPORT

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

Specimens received on: 20-02-20 Tested on: 27-02-20 in dry/wet condition

Sr. No.	Mark*	Casting Date*			Size (in)	Weight (lbs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
		/Wet Weight (gms)								
1	Basement Slab (D to G, -1 to -3)	29	12	2019	6Diax12	13.6	28.28	81	6320	Non Engraved
2	Basement Slab (D to G, -1 to -3)	29	12	2019	6Diax12	13.8	28.28	48	3750	Non Engraved
3	Column C1, C3 (A to E, 2 to 6)	1	2	2020	6Diax12	13.8	28.28	67	5230	Non Engraved
4	Column C1, C3 (A to E, 2 to 6)	1	2	2020	6Diax12	13.4	28.28	77	6010	Non Engraved
5	Column C1, C3 (A to E, 2 to 6)	1	2	2020	6Diax12	13.6	28.28	61	4760	Non Engraved
6										
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Results can also be seen on website http://www.uet.edu.pk/faculties/facultiesinfo/departement?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

10036
Dr. Umbreen

To: (Muhammad Yousuf).
Director (Civil), KCI (M/S Shaheen and Company).
Project: Nil

Our Ref. No. CL/CED/ 9977 Dated: 03-03-20
Your Ref. No. Nil Dated: 02-03-20

COMPRESSION TEST REPORT

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

Specimens received on: 03-03-20 Tested on: 03-03-20 in dry/wet condition

Sr. No.	Mark*	Casting Date*			Size (in)	Weight (lbs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
		/Wet Weight (gms)								
1	CC/28A	26	1	2020	6x6x6	8.6	36	83	5090	Engraved
2	CC/28A	26	1	2020	6x6x6	9	36	76	4660	Engraved
3	CC/28A	26	1	2020	6x6x6	8.8	36	94	5760	Engraved
4	CC/28B	26	1	2020	6x6x6	8.8	36	66	4050	Engraved
5	CC/28B	26	1	2020	6x6x6	9	36	65	3980	Engraved
6	CC/28B	26	1	2020	6x6x6	9	36	69	4230	Engraved
7	CC/28C	26	1	2020	6x6x6	9	36	92	5640	Engraved
8	CC/28C	26	1	2020	6x6x6	8.8	36	100	6130	Engraved
9	CC/28C	26	1	2020	6x6x6	8.8	36	105	6430	Engraved
10	CC/28D	27	1	2020	6x6x6	9	36	91	5580	Engraved
11	CC/28D	27	1	2020	6x6x6	9	36	95	5820	Engraved
12	CC/28D	27	1	2020	6x6x6	9	36	83	5090	Engraved
13										
14										
15										
16										

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supervisor(lab)

Director/Dy. Director Concrete Laboratory