



# Plain and Reinforced Concrete Laboratory

## Department of Civil Engineering

University of Engineering and Technology, Lahore

Phone Nos. 042-99029202, 042-99029217

7936

Dr. Aqsa

To: Deputy Director (QCD)

WASA, LDA, Lahore / M/s Amjad Trading Company

Project:(Part 3)Tender No.XEN/O&M-I/RT/309/2017-2018, Data Nagar/D.(O&M)/RT8393-96 Data23.10.2018-  
Restoration of Water Supply and Sewerage System From Kohay Noor Road to Tanga Wall etc. WASA, LDA,

Our Ref. No. CL/CED/ 7253 Dated: 13-02-19

Your Ref. No. QCD/29 Dated: 15-01-19

## COMPRESSION TEST REPORT

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

Specimens received

on: 17-01-19 Tested on: 07-02-19 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		30	10	2018	6x6x6	8	36	110	6850	Non Engraved
2		30	10	2018	6x6x6	8.6	36	74	4610	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](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 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

7936

Dr. M. Yousaf

To: Deputy Director (QCD)

WASA, LDA, Lahore / M/s Amjad Trading Company

Project: (Part 3) Tender No. XEN/O&M-I/RT/309/2017-2018, Data Nagar/D.(O&M)/RT8393-96 Data23.10.2018-  
Restoration of Water Supply and Sewerage System From Kohay Noor Road to Tanga Wall etc. WASA, LDA,

Our Ref. No. CL/CED/

7254

Dated:

13-02-19

Your Ref. No.

QCD/30

Dated:

15-01-19

## COMPRESSION TEST REPORT

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

Specimens received  
on:

17-01-19

Tested on:

06-02-19

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	F B			3471	8.8x4.4x2.9	3169	38.72	49	2840	9.52
2	F B			3620	8.9x4.3x2.8	3177	38.27	33	1940	13.94
3	F B			3712	8.8x4.4x2.9	3210	38.72	20	1160	15.63
4	F B			3487	8.9x4.3x3.0	3196	38.27	48	2810	9.1
5	F B			3622	8.9x4.3x3.0	3219	38.27	33	1940	12.51
6	F B			3531	9.0x4.3x2.9	3249	38.7	51	2960	8.67
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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

7891  
Dr. Aqsa

**To: Farhan Sajid (Resident Engineer)**  
**Mascon Associates Pvt. Ltd., Lahore**  
**Project: Musafir Khana (Badami Bagh Fruit & Veg. Market)**

Our Ref. No. CL/CED/ 7255 Dated: 13-02-19

Your Ref. No. MASC-RE/PG/18/5037 Dated: 09-01-19

## COMPRESSION TEST REPORT

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

Specimens received on: 09-01-19 Tested on: 07-02-19 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	S			3669	8.8x4.4x2.8	3346	38.72	45	2610	9.65
2	S			3604	8.9x4.3x2.9	3291	38.27	48	2810	9.51
3	S			3705	8.9x4.3x2.8	3396	38.27	50	2930	9.09
4	S			3557	8.8x4.4x2.9	3277	38.72	68	3940	8.54
5	S			3633	8.8x4.3x2.9	3307	37.84	46	2730	9.85
6	S			3724	8.9x4.4x2.8	3366	39.16	48	2750	10.63
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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

8052  
Dr. Aqsa

To: **Assistant Resident Engineer (ADP Field Office)**

**NESPAK Pvt. Ltd.**

**Project: (ADP) Dohatta Minor From RD 000+000 to 028+801 (Tail), Improvement of Irrigation Water Supply at Tail Reaches of Irrigation Channels/Minors in Selected Areas of Punjab**

Our Ref. No. CL/CED/ 7256-1 of 2 Dated: 13-02-19

Your Ref. No. 3158/13MDS/02/1095 Dated: 06-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 07-02-19 Tested on: 07-02-19 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	000+000 to 001+000	7	10	2018	6x6x6	7.6	36	55	3430	Engraved
2	000+000 to 001+000	7	10	2018	6x6x6	8	36	52	3240	Engraved
3	000+000 to 001+000	7	10	2018	6x6x6	8	36	37	2310	Engraved
4	001+000 to 002+000	14	10	2018	6x6x6	8	36	83	5170	Engraved
5	001+000 to 002+000	14	10	2018	6x6x6	7.8	36	69	4300	Engraved
6	001+000 to 002+000	14	10	2018	6x6x6	7.8	36	73	4550	Engraved
7	002+000 to 003+000	22	10	2018	6x6x6	7.8	36	81	5040	Non Engraved
8	002+000 to 003+000	22	10	2018	6x6x6	7.8	36	49	3050	Non Engraved
9	002+000 to 003+000	22	10	2018	6x6x6	7.8	36	65	4050	Engraved
10	003+000 to 004+000	28	10	2018	6x6x6	8	36	17	1060	Engraved
11	003+000 to 004+000	28	10	2018	6x6x6	7.6	36	94	5850	Engraved
12	003+000 to 004+000	28	10	2018	6x6x6	7.8	36	76	4730	Engraved
13	004+000 to 005+000	6	11	2018	6x6x6	7.6	36	85	5290	Non Engraved
14	004+000 to 005+000	6	11	2018	6x6x6	7.4	36	51	3180	Non Engraved
15	004+000 to 005+000	6	11	2018	6x6x6	7.6	36	49	3050	Non Engraved
End	---	---	---	---	---	---	---	---	---	---

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



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**Department of Civil Engineering**  
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Phone Nos. 042-99029202, 042-99029217

8052

Dr. Aqsa

To: **Assistant Resident Engineer (ADP Field Office)**

**NESPAK Pvt. Ltd.**

**Project: (ADP) Dohatta Minor From RD 000+000 to 028+801 (Tail), Improvement of Irrigation Water Supply at Tail Reaches of Irrigation Channels/Minors in Selected Areas of Punjab**

Our Ref. No. CL/CED/ 7256-2 of 2 Dated: 13-02-19

Your Ref. No. 3158/13MDS/02/1095 Dated: 06-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 07-02-19 Tested on: 07-02-19 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
		Month	Day	Year						
16	005+000 to 006+000	13	11	2018	6x6x6	7.8	36	86	5360	Engraved
17	005+000 to 006+000	13	11	2018	6x6x6	7.6	36	94	5850	Engraved
18	005+000 to 006+000	13	11	2018	6x6x6	8	36	73	4550	Engraved
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**supervisor(lab)**

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8034

Dr. Umbreen

To: **Muhammad Afzal (Engineer)**

**Widecon Engineer & Contractors, Lahore**

**Project: Construction of Beacon House School Sadqabad (2nd Floor Columns Center Portion)**

Our Ref. No. CL/CED/

7257

Dated:

13-02-19

Your Ref. No.

WEC-Gen-79/19

Dated:

04-02-19

## COMPRESSION TEST REPORT

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

Specimens received on:

04-02-19

Tested on:

04-02-19

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	1st Floor Columns	3	1	2019	6Diax12	13.6	28.28	75	5950	Non Engraved
2	1st Floor Columns	3	1	2019	6Diax12	13.8	28.28	33	2620	Non Engraved
3	1st Floor Columns	3	1	2019	6Diax12	13.8	28.28	43	3410	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](http://www.uet.edu.pk/faculties/facultiesinfo/departement?RID=testing_reports&id=6)

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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**



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Phone Nos. 042-99029202, 042-99029217

8031  
Dr. Umbreen

**To: Manager Engineering**  
**Ali Zaman Pvt. Ltd.**  
**Project: Akzo Nobel Pvt. Ltd. (Column Foundation)**

Our Ref. No. CL/CED/ 7258 Dated: 13-02-19

Your Ref. No. azl-281-2019 Dated: 01-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 04-02-19 Tested on: 04-02-19 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		27	1	2019	6Diax12	14	28.28	47	3730	Non Engraved
2		27	1	2019	6Diax12	14	28.28	37	2940	Non Engraved
3		27	1	2019	6Diax12	13.8	28.28	49	3890	Non Engraved
End	---	---	---	---	---	---	---	---	---	---
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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

8046

Dr.Rizwan Azam

**To: Fairmay Invesment**  
**76C-1 Gulberg III, Lahore**  
**Project:**

Our Ref. No. CL/CED/ 7259 Dated: 13-02-19  
Your Ref. No. Nil Dated: 04-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 06-02-19 Tested on: 12-02-19 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		29	1	2019	6Diax12	14.2	28.28	59	4680	Non Engraved
2		29	1	2019	6Diax12	14	28.28	65	5150	Non Engraved
3		29	1	2019	6Diax12	14.2	28.28	55	4360	Non Engraved
End	---	---	---	---	---	---	---	---	---	---
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**supervisor(lab)**

**Director/Dy. Director Concrete Laboratory**





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

8049

To: **Muhammad Umer Farooq (Civil Supervisor)**  
**Ambition Apparel, Lahore**  
**Project: New Building**

Dr. Rizwan Azam

Our Ref. No. CL/CED/ 7260 Dated: 13-02-19

Your Ref. No. Nil Dated: 04-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 06-02-19 Tested on: 12-02-19 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
		Month	Day	Year						
1	Footing & Beam	23	12	2018	6Diax12	13.8	28.28	33	2620	Non Engraved
2	Footing & Beam	23	12	2018	6Diax12	14	28.28	63	5000	Non Engraved
3	Footing & Beam	23	12	2018	6Diax12	13.4	28.28	50	3970	Non Engraved
4	G.F Slab & Beams	16	12	2018	6Diax12	14.2	28.28	47	3730	Non Engraved
5	G.F Slab & Beams	16	12	2018	6Diax12	13.8	28.28	49	3890	Non Engraved
6	G.F Slab & Beams	16	12	2018	6Diax12	13.6	28.28	45	3570	Non Engraved
7	F.F. Slab & Beams	6	1	2019	6Diax12	13.8	28.28	39	3090	Non Engraved
8	F.F. Slab & Beams	6	1	2019	6Diax12	14	28.28	61	4840	Non Engraved
9	F.F. Slab & Beams	6	1	2019	6Diax12	13.6	28.28	43	3410	Non Engraved
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supervisor(lab)

Director/Dy. Director Concrete Laboratory



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Phone Nos. 042-99029202, 042-99029217

8024  
Engr. Aamina

**To: Sub Divisional Officer (Development Sub-Division No.III)**  
**Mianwali Canal Rest House Sialkot**  
**Project:Chenelaization of DEG Nullah Package-II, (Bridge RD. 0+100 Geowali)**

Our Ref. No. CL/CED/ 7261-1 of 2 Dated: 13-02-19

Your Ref. No. 127/DEV Dated: 03-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 04-02-19 Tested on: 12-02-19 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	1st Span Slab	7	11	2018	6Diax12	13.6	28.28	72	5710	Non Engraved
2	1st Span Slab	7	11	2018	6Diax12	13.8	28.28	73	5790	Non Engraved
3	1st Span Parapet	8	11	2018	6Diax12	13.6	28.28	63	5000	Non Engraved
4	1st Span Parapet	8	11	2018	6Diax12	13.6	28.28	57	4520	Non Engraved
5	2nd Span Slab	14	11	2018	6Diax12	13.4	28.28	64	5070	Non Engraved
6	2nd Span Slab	14	11	2018	6Diax12	13.8	28.28	68	5390	Non Engraved
7	2nd Span Parapet	15	11	2018	6Diax12	13.6	28.28	78	6180	Non Engraved
8	2nd Span Parapet	15	11	2018	6Diax12	13.6	28.28	59	4680	Non Engraved
9	3rd Span Slab	19	11	2018	6Diax12	13.6	28.28	65	5150	Non Engraved
10	3rd Span Slab	19	11	2018	6Diax12	13.8	28.28	78	6180	Non Engraved
11	3rd Span Parapet	20	11	2018	6Diax12	13.6	28.28	54	4280	Non Engraved
12	3rd Span Parapet	20	11	2018	6Diax12	13.6	28.28	68	5390	Non Engraved
End	---	---	---	---	---	---	---	---	---	---
14										
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Results can also be seen on website [http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\\_reports&id=6](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 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

8024

Engr. Aamina

**To: Sub Divisional Officer (Development Sub-Division No.III)**  
**Mianwali Canal Rest House Sialkot**  
**Project:Chenelaization of DEG Nullah Package-II, (Bridge RD. 306+720)**

Our Ref. No. CL/CED/ 7261-2 of 2 Dated: 13-02-19

Your Ref. No. 127/DEV Dated: 03-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 04-02-19 Tested on: 12-02-19 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)								
13	Pier Cap No.5	28	11	2018	6Diax12	13.8	28.28	61	4840	Non Engraved
14	Pier Cap No.5	28	11	2018	6Diax12	13.6	28.28	94	7450	Non Engraved
15	4th Span Girders	3	12	2018	6Diax12	13.8	28.28	90	7130	Non Engraved
16	4th Span Girders	3	12	2018	6Diax12	13.8	28.28	89	7050	Non Engraved
17	L/S Abutment Cap	5	12	2018	6Diax12	13.4	28.28	71	5630	Non Engraved
18	L/S Abutment Cap	5	12	2018	6Diax12	13.6	28.28	45	3570	Non Engraved
19	5th Span Girders	10	12	2018	6Diax12	13.6	28.28	81	6420	Non Engraved
20	5th Span Girders	10	12	2018	6Diax12	13.6	28.28	77	6100	Non Engraved
21	6th Span Girders	13	12	2018	6Diax12	13.8	28.28	55	4360	Non Engraved
22	6th Span Girders	13	12	2018	6Diax12	13.6	28.28	41	3250	Non Engraved
End	---	---	---	---	---	---	---	---	---	---
12										
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Results can also be seen on website [http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\\_reports&id=6](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 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

8086

Engr. Aamina

**To: Han Bing (Section Manager Lot-4)**  
**China Electric Power Equipment and Technology Co. Ltd**  
**Project:±660KV Matiari-Lahore HVDC Transmission, Lot 4 (Tower: G-1179)**

Our Ref. No. CL/CED/ 7262 Dated: 13-02-19

Your Ref. No. CET/PAK/HVDC/010 Dated: 12-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 13-02-19 Tested on: 13-02-19 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	Leg: D	8	1	2019	6Diax12	13.2	28.28	67	5310	Non Engraved
2	Leg: D	8	1	2019	6Diax12	13.4	28.28	78	6180	Non Engraved
3	Leg: D	8	1	2019	6Diax12	13.4	28.28	76	6020	Non Engraved
4	Leg: A	9	1	2019	6Diax12	13.2	28.28	73	5790	Non Engraved
5	Leg: A	9	1	2019	6Diax12	13.3	28.28	67	5310	Non Engraved
6	Leg: A	9	1	2019	6Diax12	13.2	28.28	70	5550	Non Engraved
End	---	---	---	---	---	---	---	---	---	---
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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

8080

Dr. Rizwan Azam

To: **Ejaz Bhatti**  
**Taj 8 Petroleum Service, Lahore**  
**Project: Taj Corporation**

Our Ref. No. CL/CED/ 7263 Dated: 13-02-19

Your Ref. No. 2001 Dated: 12-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 12-02-19 Tested on: 13-02-19 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	Floor Tiles				0.60 Thick	456	14.55	37	5700	
2	Floor Tiles				0.60 Thick	430	14.55	45	6930	
3	Floor Tiles				0.60 Thick	465	14.55	40	6160	
End	---	---	---	---	---	---	---	---	---	---
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supervisor(lab)

Director/Dy. Director Concrete Laboratory