



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

8113  
Dr. Umbreen

To: **Mr. Wang Bo (Project Manager)**  
**China Electric Power Equipment and Technology Co. Ltd**  
**Project:±660KV Matiari-Lahore HVDC Transmission, (Lot 7 & 8, Tower No. G-2029)**

Our Ref. No. CL/CED/ 7433 Dated: 05-03-19

Your Ref. No. CET/PAK/HVDC/UET-19-005 Dated: 12-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 18-02-19 Tested on: 25-02-19 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 A	15	1	2019	6Diax12	13.6	28.28	55	4360	Non Engraved
2	Leg A	15	1	2019	6Diax12	14	28.28	65	5150	Non Engraved
3	Leg A	15	1	2019	6Diax12	14	28.28	65	5150	Non Engraved
4	Leg C	15	1	2019	6Diax12	13.6	28.28	59	4680	Non Engraved
5	Leg C	15	1	2019	6Diax12	13.6	28.28	59	4680	Non Engraved
6	Leg C	15	1	2019	6Diax12	13.6	28.28	69	5470	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)

\* 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**



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8113  
Dr. Aqsa

**To: Mr. Wang Bo (Project Manager)**  
**China Electric Power Equipment and Technology Co. Ltd**  
**Project:±660KV Matiari-Lahore HVDC Transmission Line, (Lot 7 & 8, Tower No. G-2027)**

Our Ref. No. CL/CED/ 7434 Dated: 05-03-19

Your Ref. No. CET/PAK/HVDC/UET-19-006 Dated: 14-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 18-02-19 Tested on: 28-02-19 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 A	24	1	2019	6Diax12	13.6	28.28	73	5790	Engraved
2	Leg A	24	1	2019	6Diax12	13.6	28.28	67	5310	Engraved
3	Leg A	24	1	2019	6Diax12	13.6	28.28	63	5000	Engraved
4	Leg C	24	1	2019	6Diax12	13.4	28.28	67	5310	Non Engraved
5	Leg C	24	1	2019	6Diax12	13.4	28.28	67	5310	Non Engraved
6	Leg C	24	1	2019	6Diax12	13.4	28.28	48	3810	Non Engraved
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To: **Mr. Wang Bo (Project Manager)**  
**China Electric Power Equipment and Technology Co. Ltd**  
**Project:±660KV Matiari-Lahore HVDC Transmission Line, (Lot 7 & 8, Tower No. G-2030)**

Our Ref. No. CL/CED/ 7435 Dated: 05-03-19

Your Ref. No. CET/PAK/HVDC/UET-19-007 Dated: 17-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 18-02-19 Tested on: 28-02-19 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 A	20	1	2019	6Diax12	13.4	28.28	65	5150	Non Engraved
2	Leg A	20	1	2019	6Diax12	13.8	28.28	47	3730	Non Engraved
3	Leg A	20	1	2019	6Diax12	13.4	28.28	55	4360	Non Engraved
4	Leg C	20	1	2019	6Diax12	13.7	28.28	59	4680	Non Engraved
5	Leg C	20	1	2019	6Diax12	13.6	28.28	61	4840	Non Engraved
6	Leg C	20	1	2019	6Diax12	13.6	28.28	67	5310	Non Engraved
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8113  
Dr. Aqsa

**To: Mr. Wang Bo (Project Manager)**  
**China Electric Power Equipment and Technology Co. Ltd**  
**Project: ±660KV Matiari-Lahore HVDC Transmission Line, (Lot 7 & 8, Tower No. G-2029)**

Our Ref. No. CL/CED/ 7436 Dated: 05-03-19

Your Ref. No. CET/PAK/HVDC/UET-19-008 Dated: 19-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 18-02-19 Tested on: 28-02-19 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 B	22	1	2019	6Diax12	13.6	28.28	75	5950	Engraved
2	Leg B	22	1	2019	6Diax12	13.6	28.28	94	7450	Engraved
3	Leg B	22	1	2019	6Diax12	13.4	28.28	75	5950	Non Engraved
4	Leg D	22	1	2019	6Diax12	13.6	28.28	81	6420	Non Engraved
5	Leg D	22	1	2019	6Diax12	13.4	28.28	54	4280	Non Engraved
6	Leg D	22	1	2019	6Diax12	13.4	28.28	75	5950	Non Engraved
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Phone Nos. 042-99029202, 042-99029217

8113  
Dr. Aqsa

To: **Mr. Wang Bo (Project Manager)**  
**China Electric Power Equipment and Technology Co. Ltd**  
**Project:±660KV Matiari-Lahore HVDC Transmission Line, (Lot 7 & 8, Tower No. G-2027)**

Our Ref. No. CL/CED/ 7437 Dated: 05-03-19

Your Ref. No. CET/PAK/HVDC/UET-19-009 Dated: 21-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 18-02-19 Tested on: 28-02-19 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 B	24	1	2019	6Diax12	13.2	28.28	86	6820	Engraved
2	Leg B	24	1	2019	6Diax12	13.2	28.28	85	6740	Engraved
3	Leg B	24	1	2019	6Diax12	13.6	28.28	71	5630	Engraved
4	Leg D	24	1	2019	6Diax12	13.6	28.28	61	4840	Non Engraved
5	Leg D	24	1	2019	6Diax12	13.4	28.28	61	4840	Non Engraved
6	Leg D	24	1	2019	6Diax12	13.2	28.28	55	4360	Non Engraved
End	---	---	---	---	---	---	---	---	---	---
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**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

8113

Dr. Aqsa

To: Mr. Wang Bo (Project Manager)

China Electric Power Equipment and Technology Co. Ltd

Project: ±660KV Matiari-Lahore HVDC Transmission Line, (Lot 7 & 8, Tower No. G-2368)

Our Ref. No. CL/CED/ 7438 Dated: 05-03-19

Your Ref. No. CET/PAK/HVDC/UET-19-001 Dated: 21-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 18-02-19 Tested on: 28-02-19 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 B	20	1	2019	6Diax12	13	28.28	53	4200	Engraved
2	Leg B	20	1	2019	6Diax12	13	28.28	65	5150	Engraved
3	Leg B	20	1	2019	6Diax12	13.2	28.28	61	4840	Engraved
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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

8196

To: **Arsalan Arshad (Project Manager)**  
**DEPAC, Lahore**

Engr. Abdul Rehman

**Project: Construction of Dr. Maqbool Ahmad Block, King Edward Medical University (KEMU), Lahore**

Our Ref. No. CL/CED/ 7439 Dated: 05-03-19

Your Ref. No. T/12/03/18 Dated: 28-02-19

## COMPRESSION TEST REPORT

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

Specimens received on: 04-03-19 Tested on: 05-03-19 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	Retaining Wall	29	1	2019	6Diax12	13.6	28.28	61	4840	Non Engraved
2	Retaining Wall	29	1	2019	6Diax12	13.4	28.28	67	5310	Non Engraved
3	Retaining Wall	29	1	2019	6Diax12	13.6	28.28	59	4680	Non Engraved
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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

8190

To: **Engr. Khalid Noor (C.E.O Astaco)**  
**Astaco Engineers and Contractors, Lahore**  
**Project:**

Engr. Abdul Rehman

Our Ref. No. CL/CED/ 7440 Dated: 05-03-19

Your Ref. No. Nil Dated: 04-03-19

## COMPRESSION TEST REPORT

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

Specimens received on: 04-03-19 Tested on: 05-03-19 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	Slab	17	2	2019	6x6x6	8.2	36	75	4670	Non Engraved
2	Slab	17	2	2019	6x6x6	8.2	36	84	5230	Non Engraved
3	Slab	17	2	2019	6x6x6	8.2	36	69	4300	Non Engraved
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