

ORIGINAL A carbon copy for the report has been retained in the lab for record.

> 5552 Dr. M.Yousaf

To: Mr. Omair Sadig

Project Manager, One Liberty Mall and H&S Hotel

Project: One Liberty Mall and H&S Hotel located at Noor Jehan Road, Gulberg III, Lahore.

Our Ref. No. CL/CED/ 2534	Dated:	07/08/2023	Test Specification
Your Ref. No. OL/OS/2023/61	Dated:	17/07/2023	(ASTM C39)

COMPRESSION TEST REPORT

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

Specim	ens received on:	17	/07/2	023	Tested on:	07/08	3/2023	in dry/wet	condition			
Sr. No.	Mark*		-	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Water Absorpti on (%)	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	011 (76)	
1	Columns (D2, D3), 16th - 17th	16	6	2023	6Diax12		13.2	28.28	78	6178		Non Engraved
2	Columns (D2, D3), 16th - 17th	16	6	2023	6Diax12		13.4	28.28	95	7525		Non Engraved
3	Columns (D2, D3), 16th - 17th	16	6	2023	6Diax12		14	28.28	110	8713		Non Engraved
4	Columns (F2, F3) 16th - 17th	8	6	2023	6Diax12		14.2	28.28	115	9109		Non Engraved
5	Columns (F2, F3) 16th - 17th	8	6	2023	6Diax12	EINE	RI/14	28.28	117	9267		Non Engraved
6	Columns (F2, F3) 16th - 17th	8	6	2023	6Diax12	READIN	13.4	28.28	107	8475		Non Engraved
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Witness	Witnessed by: Mr. Yasir Iqbal, Site Engineer, CNIC # 35201-4432046-5											

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

1. * as engraved on the specimens (if any)

2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as comprensive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)

2.The test results are recommended to be interpreted in the light of above factors by the engineer.



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> 5619 Dr. M.Yousaf

To: **Director Projects**

Innovative Construction Company. PCSIR Housing Society, Phase II, Lahore.

Project: Construction of ABL Branch at Fazaia Housing Scheme, Phase-I, Lahore.

Our Ref. No. CL/	CED/ 2535	Dated:	07/08/2023	Test Specification
Your Ref. No.	ICL/ABL/FH/0723/07	Dated:	26/07/2023	(ASTM C39)

COMPRESSION TEST REPORT

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

Mark* 		-	Date*	Size	Wet	Dry	Area of	1 II the sta	Ultimate		
	22		YYYY	(in)	Weight (Kg/ gms)	-	X-Section	Ultimate Ioad (Imp.Tons)	Stress	Water Absorpti on (%)	Remarks
		6	2023	6Diax12		13	28.28	43	3406		Non Engraved
	22	6	2023	6Diax12		13.4	28.28	48	3802		Non Engraved
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Vitnessed by: Nil

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

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1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)

2.The test results are recommended to be interpreted in the light of above factors by the engineer.



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5619 Dr. M.Yousaf

To: **Director Projects**

Innovative Construction Company, PCSIR Housing Society, Phase II, Lahore.

Project: Construction of ABL Branch at Fazaia Housing Scheme, Phase-I, Lahore.

Our Ref. No. CL/C	ED/ 2536	Dated:	07/08/2023	Test Specification
Your Ref. No.	ICL/ABL/FH/0723/07	Dated:	26/07/2023	(ASTM C39)

COMPRESSION TEST REPORT

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

Specim	ens received on:	26	6/07/2	2023	Tested on:	07/08	3/2023	in dry/wet	condition			
Sr. No.	Mark*	Cas DD	_	Date* YYYY	Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)	Ultimate load (Imp.Tons)	Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
1		14	7	2023	6Diax12		13.6	28.28	72	5703		Non Engraved
2		14	7	2023	6Diax12		13.4	28.28	60	4752		Non Engraved
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15												
16												
Witness	ed by: Nil											

Vitnessed by: Nil

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

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2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

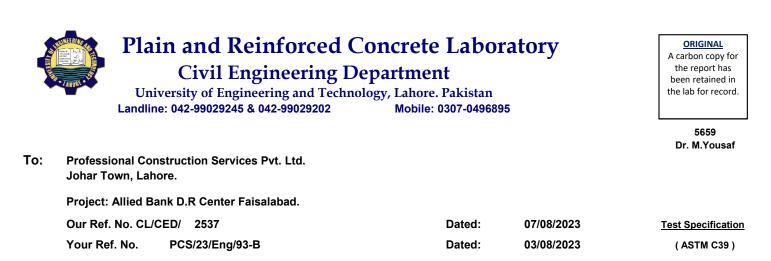
3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

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COMPRESSION TEST REPORT

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

ns received on:	03	8/08/2	2023	Tested on:	07/08	3/2023	in dry/wet	condition			
Mark*	Cas DD	-		Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)			Stress	Water Absorpti on (%)	Remarks
Retaining Wall	27	7	2023	6Diax12		13	28.28	38	3010		Non Engraved
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	Mark* Retaining Wall	Mark* Case DD Retaining Wall 27	Mark* Casting DD MM Retaining Wall 27 7	Mark* Casting Date* DD MM YYYY Retaining Wall 27 7 2023 </td <td>Mark* Casting Date* Size DD MM YYYY (in) Retaining Wall 27 7 2023 6Diax12 <td< td=""><td>Mark* Casting Date* Size Wet Weight DD MM YYYY (in) (Kg/gms) Retaining Wall 27 7 2023 6Diax12 </td><td>Mark* Casting Date* Size Wet Weight Dry Weight DD MM YYYY (in) (Kg/gms) (Kg/gms) Retaining Wall 27 7 2023 6Diax12 13 13 13 -</td><td>Mark* C_{astire} $Date*$ Size Wet Weight Weight Weight (Kg/gms) Area of X-Section (Kg/gms) Retaining Wall 27 7 2023 6Diax12 13 28.28 7 2023 6Diax12 13 28.28 13 28.28 </td><td>Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of (Sq. in) Ultimate load Retaining Wall 27 7 2023 6Diax12 13 28.28 38 13 28.28 38 </td><td>Mark* $Castra D tet*$ Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of SSection (Imp. Tons) Ultimate Stress (ps) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010 1 1 <td>Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of X-Section load Ultimate Stress (ps) Water Absorption (%) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010 </td></td></td<></td>	Mark* Casting Date* Size DD MM YYYY (in) Retaining Wall 27 7 2023 6Diax12 <td< td=""><td>Mark* Casting Date* Size Wet Weight DD MM YYYY (in) (Kg/gms) Retaining Wall 27 7 2023 6Diax12 </td><td>Mark* Casting Date* Size Wet Weight Dry Weight DD MM YYYY (in) (Kg/gms) (Kg/gms) Retaining Wall 27 7 2023 6Diax12 13 13 13 -</td><td>Mark* C_{astire} $Date*$ Size Wet Weight Weight Weight (Kg/gms) Area of X-Section (Kg/gms) Retaining Wall 27 7 2023 6Diax12 13 28.28 7 2023 6Diax12 13 28.28 13 28.28 </td><td>Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of (Sq. in) Ultimate load Retaining Wall 27 7 2023 6Diax12 13 28.28 38 13 28.28 38 </td><td>Mark* $Castra D tet*$ Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of SSection (Imp. Tons) Ultimate Stress (ps) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010 1 1 <td>Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of X-Section load Ultimate Stress (ps) Water Absorption (%) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010 </td></td></td<>	Mark* Casting Date* Size Wet Weight DD MM YYYY (in) (Kg/gms) Retaining Wall 27 7 2023 6Diax12	Mark* Casting Date* Size Wet Weight Dry Weight DD MM YYYY (in) (Kg/gms) (Kg/gms) Retaining Wall 27 7 2023 6Diax12 13 13 13 -	Mark* C_{astire} $Date*$ Size Wet Weight Weight Weight (Kg/gms) Area of X-Section (Kg/gms) Retaining Wall 27 7 2023 6Diax12 13 28.28 7 2023 6Diax12 13 28.28 13 28.28	Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of (Sq. in) Ultimate load Retaining Wall 27 7 2023 6Diax12 13 28.28 38 13 28.28 38	Mark* $Castra D tet*$ Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of SSection (Imp. Tons) Ultimate Stress (ps) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010 1 1 <td>Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of X-Section load Ultimate Stress (ps) Water Absorption (%) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010 </td>	Mark* Casting Date* Size Wet Weight (Kg/ gms) Dry Weight (Kg/ gms) Area of X-Section load Ultimate Stress (ps) Water Absorption (%) Retaining Wall 27 7 2023 6Diax12 13 28.28 38 3010 13 28.28 38 3010

Vitnessed by: Nil

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

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2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

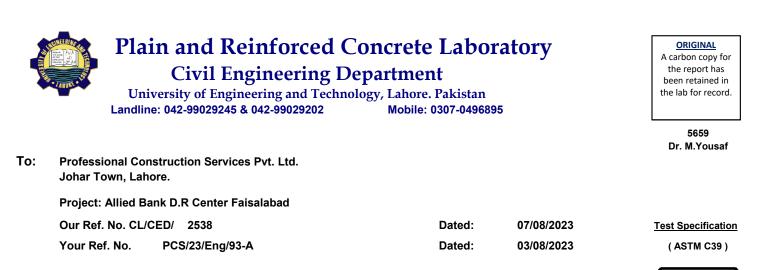
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1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)

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COMPRESSION TEST REPORT

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

		8/08/2	2023	Tested on:	07/08	3/2023	in dry/wet	condition			
Mark*	Cas DD	-		Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)			Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
Retaining Wall	27	7	2023	6Diax12		13	28.28	37	2931		Non Engraved
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	Retaining Wall	Mark* DD Retaining Wall 27	Mark* DD MM Retaining Wall 27 7	DD MM YYYY Retaining Wall 27 7 2023 <t< td=""><td>Mark* DD MM YYYY (in) Retaining Wall 27 7 2023 6Diax12 </td></t<> <td>Mark* Casting Date* Size Weight (Kg/ gms) Retaining Wall 27 7 2023 6Diax12 </td> <td>Mark* Casting Date Size Weight Weight DD MM YYYY (in) (Kg/ gms) (Kg/ gms) Retaining Wall 27 7 2023 6Diax12 13 1 13 1 1 <td>Mark* Casting Date* Size Weight Weight (Kg/ gms) Weight (Kg/ gms) X-Section (Sq. in) Retaining Wall 27 7 2023 6Diax12 13 28.28 13 28.28 </td><td>Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq.in) load (Imp.Tons) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 13 28.28 37 13 28.28 37 13 28.28 37 13 28.28 37 </td><td>Mark* Casting Date* Size Weight Weight Weight $Mark$ Weight Weight (Kg/gms) X-Section (Sq. in) Ioad (Imp.Tons) Stress (ps) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 1 1 <td>Mark* Casting Date* Size Weight Weight Weight Weight X-Section Ioad Stress (prime definition on (%) (prime definition on (%)) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 </td></td></td>	Mark* DD MM YYYY (in) Retaining Wall 27 7 2023 6Diax12	Mark* Casting Date* Size Weight (Kg/ gms) Retaining Wall 27 7 2023 6Diax12	Mark* Casting Date Size Weight Weight DD MM YYYY (in) (Kg/ gms) (Kg/ gms) Retaining Wall 27 7 2023 6Diax12 13 1 13 1 1 <td>Mark* Casting Date* Size Weight Weight (Kg/ gms) Weight (Kg/ gms) X-Section (Sq. in) Retaining Wall 27 7 2023 6Diax12 13 28.28 13 28.28 </td> <td>Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq.in) load (Imp.Tons) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 13 28.28 37 13 28.28 37 13 28.28 37 13 28.28 37 </td> <td>Mark* Casting Date* Size Weight Weight Weight $Mark$ Weight Weight (Kg/gms) X-Section (Sq. in) Ioad (Imp.Tons) Stress (ps) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 1 1 <td>Mark* Casting Date* Size Weight Weight Weight Weight X-Section Ioad Stress (prime definition on (%) (prime definition on (%)) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 </td></td>	Mark* Casting Date* Size Weight Weight (Kg/ gms) Weight (Kg/ gms) X-Section (Sq. in) Retaining Wall 27 7 2023 6Diax12 13 28.28 13 28.28	Mark* Casting Date* Size Weight Weight (Kg/gms) Weight (Kg/gms) X-Section (Sq.in) load (Imp.Tons) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 13 28.28 37 13 28.28 37 13 28.28 37 13 28.28 37	Mark* Casting Date* Size Weight Weight Weight $Mark$ Weight Weight (Kg/gms) X -Section (Sq. in) Ioad (Imp.Tons) Stress (ps) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 1 1 <td>Mark* Casting Date* Size Weight Weight Weight Weight X-Section Ioad Stress (prime definition on (%) (prime definition on (%)) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 </td>	Mark* Casting Date* Size Weight Weight Weight Weight X-Section Ioad Stress (prime definition on (%) (prime definition on (%)) Retaining Wall 27 7 2023 6Diax12 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931 13 28.28 37 2931

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

1. * as engraved on the specimens (if any)

2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

3. *** 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

1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)

2.The test results are recommended to be interpreted in the light of above factors by the engineer.



Project: Construction of New Building at Plot No.25, Road 13 Khayabane-Kheruddin Housing Scheme, Johar Town, Lahore. Our Ref. No. CL/CED/ 2539 Dated: 07/08/2023 **Test Specification** Your Ref. No. 26/07/2023 (ASTM C39) SCM-203B-06-23 Dated:

COMPRESSION TEST REPORT

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

Specim	ens received on:	27	7/07/2	2023	Tested on:	07/08	3/2023	in dry/wet	condition			
Sr. No.	Mark*	Cas DD	-	Date* YYYY	Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)	Ultimate Ioad (Imp.Tons)	Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
1	Plant	18	7	2023	6Diax12		13.8	28.28	41	3248		Engraved
2	Plant	18	7	2023	6Diax12		13.6	28.28	53	4198		Engraved
3	Nil	18	7	2023	6Diax12		13.8	28.28	44	3485		Engraved
4	Nil	18	7	2023	6Diax12		14.4	28.28	36	2851		Engraved
5	Nill	18	7	2023	6Diax12	GINE	RI 14	28.28	48	3802		Engraved
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Witness	ed by: Nil											

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Plain and Reinforced Concrete Laboratory

Civil Engineering Department

University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

ORIGINAL A carbon copy for the report has been retained in the lab for record.

> 5624 Dr. M.Yousaf

To: Engr. Hassan Mahmood

Resident Engineer, G3 Engineering Consultants (Pvt) Ltd.

Project: Construction of DHA New Life Residencia Apartments at 273/1 Q Block, Phase II, DHA , Lahore.

Our Ref. No. CL/	CED/ 2540	Dated:	07/08/2023	Test Specification
Your Ref. No.	G3/DHA/NLD/RE/179	Dated:	26/07/2023	(ASTM C39)

COMPRESSION TEST REPORT

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

Specim	ens received on:	27	/07/2	2023	Tested on:	07/08	3/2023	in dry/wet	condition			
Sr. No.	Mark*	Cas DD	-	Date* YYYY	Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)	Ultimate Ioad (Imp.Tons)	Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
1	5000 Psi	26	6	2023	6Diax12		14	28.28	107	8475		Non Engraved
2	5000 Psi	26	6	2023	6Diax12		14.4	28.28	75	5941		Non Engraved
3	5000 Psi	26	6	2023	6Diax12		14	28.28	95	7525		Non Engraved
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Witnessed by: Nil												

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Plain and Reinforced Concrete Laboratory

Civil Engineering Department

University of Engineering and Technology, Lahore. Pakistan Landline: 042-99029245 & 042-99029202 Mobile: 0307-0496895

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5590 Dr. M.Yousaf

To: Manager

ABL-SIER P#12, AMCORP Engineering & Construction Pvt. Ltd.

Project: Construction of ABL Proposed Commercial Building Sundar Industrial Plot No.12.

Our Ref. No. CL/	CED/ 2541	Dated:	07/08/2023	Test Specification
Your Ref. No.	ABL-SIER-AMC-QAQC-32	Dated:	24/07/2023	(ASTM C39)

COMPRESSION TEST REPORT

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

Specim	24/07/2023 Teste			Tested on:	07/08	8/2023	in dry/wet condition					
Sr. No.	Mark*	Casting Date*			Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)	Ultimate load (Imp.Tons)	Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
1	55	16	7	2023	6Diax12		13	28.28	45	3564		Non Engraved
2	57	16	7	2023	6Diax12		12.8	28.28	48	3802		Non Engraved
3	63 R.B	16	7	2023	6Diax12		13.6	28.28	48	3802		Non Engraved
4	61 R.B	16	7	2023	6Diax12		13.2	28.28	46	3644		Non Engraved
5	62 R.B	16	7	2023	6Diax12	E	R 13	28.28	46	3644		Non Engraved
6	56	16	7	2023	6Diax12	READIN	13	28.28	44	3485		Non Engraved
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Witnessed by: Nil												

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3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as comprensive strength

Note: Above results pertain to the unsealed samples supplied to the laboratory

1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)

2.The test results are recommended to be interpreted in the light of above factors by the engineer.

	Plain and Reinforced Concrete L Civil Engineering Department University of Engineering and Technology, Lahore. Pak Landline: 042-99029245 & 042-99029202 Mobile: 0307	sistan	ORIGINAL A carbon copy for the report has been retained in the lab for record.
То:	Sub Divisional Officer Civil Const: Sub Division-II GSC, LESCO, Lahore.		5614 Dr. M.Yousaf
	Project: Construction of 132 kV GIS Grid Station Zamin City Housing Sch Near Fruit and Vegetable Market Kahna, Lahore. (Control House Building Our Ref. No. CL/CED/ 2542 Da	Test Specification	
	Your Ref. No. D.M/CIVIL/GSC/LESCO/-376-78 Da	ted: 24/07/2023	(ASTM C39)

COMPRESSION TEST REPORT

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

Specime	26/07/2023 Tested on:				07/08	condition						
Sr. No.	Mark*	Casting Date*			Size (in)	Wet Weight (Kg/ gms)	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)	Ultimate Ioad (Imp.Tons)	Ultimate Stress) (psi)	Water Absorpti on (%)	Remarks
1	RCC (1:2:4)	15	7	2023	6Diax12		13.6	28.28	64	5069		Non Engraved
2	RCC (1:2:4)	15	7	2023	6Diax12		13.6	28.28	67	5307		Non Engraved
3	RCC (1:2:4)	15	7	2023	6Diax12		13.6	28.28	69	5465		Non Engraved
4												
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6					-)		210Th					
7						THE NAME	المسترغي المار خلف	2				
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11												
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14												
15												
16												

Vitnessed by: Nil

Results can also be seen on website https://civil.uet.edu.pk/concrete-laboratory-reports1/

1. * as engraved on the specimens (if any)

2. ** BS3921 requires average of ten clay brick samples for crushing strength and water absorption

3. *** BS5328 requires mean of two cube sample strength at 28 days as characteristic strength

4. **** ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as compressive strength

 $\underline{\textbf{Note:}}$ Above results pertain to the unsealed samples supplied to the laboratory

1. The laboratory is not responsible for sampling, originality and construction conditions (such as mix proportion, w/c ratio, compaction, curing and quality of ingredients)

2. The test results are recommended to be interpreted in the light of above factors by the engineer.