

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

To: Furqan Ali Malik (Chief Resident Engineer, Package-I) Engr. Aamina CM Div., NESPAK (Pvt.) Ltd. Lahore (M/s Developers) Project: Constt. & Rehab. of at Grade Works Along Lahore Orange Line Metro Train Corridor Package-1 (Section-II) From Coop Store to Bohar Wala Chowk (AL KHAIR)

Our Ref. No. CL/CE	D/	8805	Dated:	04-09-19
Your Ref. No.	4042/13/FAM/T	ough-Paver-100	Dated:	29-08-19

#### COMPRESSION TEST REPORT

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

Specimens received on: 30-08-19

Tested on:

03-09-19 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)	Size (in)	Weight (Ibs./gms)	Area of X-Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Rectangular Grey		7.8x3.9x3.0	3547	30.42	63	4640	
2	Rectangular Grey		7.8x3.9x3.0	3559	30.42	71	5230	
3	Rectangular Red		7.8x3.9x3.0	3510	30.42	100	7370	
4	Rectangular Grey		7.8x3.9x2.2	2811	30.42	129	9500	
5	Rectangular Grey		7.8x3.9x2.2	2672	30.42	110	8100	
6	Rectangular Red		7.8x3.9x2.2	2821	30.42	94	6930	
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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 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**

9127



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

#### To: Syed Muhammad Ali

9093 Dr. Aqsa

Lattitude Solutions, Lahore Project: Ground Floor Column	s for Bank Al-Ha	ibib Branch B	uilding at Zahir Pir Reahim Yar Khan
Our Ref. No. CL/CED/	8806	Dated:	04-09-19

Your Ref. No. Nil Dated: 22-08-19

#### **COMPRESSION TEST REPORT**

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

Specimens received on:

22-08-19

Tested on:

29-08-19 in dry/wet condition

		1								
		Cas	sting	g Date*	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	OZ Mark*		et V	Veight	(in)	(lbs./gms)	X- Section	load	Stress	Remarks
			(gn	ns)			(Sq. in)	(Tons/lbs)	(Psi)	
1	Ground Floor Columns	26	7	2019	6Diax12	12.4	28.28	44	3430	Non Engraved
2	Ground Floor Columns	26	7	2019	6Diax12	12.4	28.28	35	2730	Non Engraved
3	Ground Floor Columns	26	7	2019	6Diax12	12	28.28	34	2650	Non Engraved
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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)



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

#### To: Syed Muhammad Ali

9093 Dr. Aqsa

# Lattitude Solutions, Lahore

Project: Ground Floor Slab Bank Al-Habib Branch Building at Zahir Pir Reahim Yar Khan

Our Ref. No. CL/CED/	8807	Dated:	04-09-19
Your Ref. No.	Nil	Dated:	22-08-19

Tested on:

#### COMPRESSION TEST REPORT

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

Specimens received on:

22-08-19

29-08-19 in dry/wet condition

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		Ca	astin	g Date*	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	Mark*	Λ	/Wet Weight		(in)	(lbs./gms)	X- Section	load	Stress	Remarks
			(gms)				(Sq. in)	(Tons/lbs)	(Psi)	
1	Ground Floor Slab	8	8 8 2019		6Diax12	12.4	28.28	15	1170	Engraved
2	Ground Floor Slab	8	8	2019	6Diax12	12.8	28.28	23	1800	Non Engraved
3	Ground Floor Slab	8	8	2019	6Diax12	12.6	28.28	29	2260	Non Engraved
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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)



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

29-08-19

in dry/wet condition

# To:Muhammad Aslam Siddiqui (Manager C, R & M)<br/>Allied Bank Engineering Cell Multan<br/>Project: Construction of Allied Bank Linited Grain Market, Bahawalnagar Branch (0043)Our Ref. No. CL/CED/8808Dated:04-09-19

Your Ref. No. GHQ/S2/Engg.Cell.MTN/MA/2019/583 Dated: 23-08-19

# **COMPRESSION TEST REPORT**

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

23-08-19

Specimens received on:

Tested on:

Area of Ultimate Ultimate Casting Date\* Size Weight å Χ-/Wet Weight (lbs./gms) Mark\* (in) load Stress Remarks Section . ເ (Tons/lbs) (gms) (Sq. in) (Psi) 1 27 7 2019 4910 3000 Psi 6Diax12 14 28.28 63 Non Engraved 2 3000 Psi 27 7 2019 6Diax12 47 3670 14 28.28 Non Engraved 3 7 3000 Psi 27 2019 6Diax12 14 28.28 72 5620 Non Engraved 4 5 6 7 8 9 10 11 12 13 14 15 16

Results can also be seen on website <u>http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\_reports&id=6</u>

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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**

9096 Dr. Aqsa



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

#### To: Ch. Abdul Ghafoor (Resident Engineer) PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial I

Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package A)

Our Ref. No. CL/CE	D/	8809	Dated:	04-09-19
Your Ref. No.	RE/PEPAC/S	Sunder/A-193	Dated:	23-08-19

## **COMPRESSION TEST REPORT**

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

Specimens received on:

27-08-19 Tested on:

28-0

28-08-19 in dry/wet condition

Sr. No.	Mark*		Casting Date* /Wet Weight (gms)		Size (in)	Weight (Ibs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Slab G/F (A-5)	14	7	2019	6x6x6	8.6	36	67	4170	Engraved
2	Slab G/F (A-5)	14	7	2019	6x6x6	8.4	36	79	4920	Engraved
3	Slab G/F (A-5)	14	7	2019	6x6x6	8.4	36	81	5040	Engraved
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Results can also be seen on website <u>http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\_reports&id=6</u>

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supervisor(lab)

#### Director/Dy. Director Concrete Laboratory

9103 Dr. Umbreen



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

1 Hone Nos. 042-33023202, 042-33023211

9103 Dr. Umbreen

#### To: Ch. Abdul Ghafoor (Resident Engineer)

PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group)

Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package B)

Our Ref. No. CL/CED/	8810	Dated:	04-09-19
Your Ref. No.	RE/PEPAC/Sunder/B-194	Dated:	23-08-19

## **COMPRESSION TEST REPORT**

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

Specimens received on:

27-08-19

Tested on:

28-08-19 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	Col. F/F (B-2)	17	7	2019	6x6x6	8.8	36	69	4300	Engraved
2	Col. F/F (B-2)	17	7	2019	6x6x6	8.6	36	67	4170	Engraved
3	Col. F/F (B-2)	17	7	2019	6x6x6	8.4	36	73	4550	Engraved
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supervisor(lab)



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

. 042-33023202, 042-33023217

9103 Dr. Umbreen

#### To: Ch. Abdul Ghafoor (Resident Engineer)

PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group)

Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package A)

Our Ref. No. CL/CED/	8811	Dated:	04-09-19
Your Ref. No.	RE/PEPAC/Sunder/A- 195	Dated:	23-08-19

#### **COMPRESSION TEST REPORT**

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

Spec	imens received on:	2	27-0	8-19	Tested of	n:	28-08-19	in dry/wet co	ndition					
Sr. No.	Mark*		Casting Date* /Wet Weight				/Wet Weight		Size (in)	Weight (lbs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Slab 2nd/F (A-9)	18	7	2019	6x6x6	8.6	36	83	5170	Engraved				
2	Slab 2nd/F (A-9)	18	7	2019	6x6x6	8.6	36	90	5600	Engraved				
3	Slab 2nd/F (A-9)	18	7	2019	6x6x6	8.4	36	85	5290	Engraved				
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supervisor(lab)



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

 To:
 Ch. Abdul Ghafoor (Resident Engineer)
 Dr. Umbre

 PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group)
 Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate
 District Kasur (Package B)

 Our Ref. No. CL/CED/
 8812
 Dated:
 04-09-19

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Your R	ef. No		RE/PEP	AC/Sunder/B	-196	Dated:	23-0	)8-1	9

## **COMPRESSION TEST REPORT**

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

Specimens received on:

27-08-19

Tested on:

28-08-19 in dry/wet condition

Sr. No.	Mark*		Casting Date* /Wet Weight (gms)		Size (in)	Weight (Ibs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Slab 2nd/F (B-3)	19	7	2019	6x6x6	8.4	36	78	4860	Engraved
2	Slab 2nd/F (B-3)	19	7	2019	6x6x6	8.6	36	69	4300	Engraved
3	Slab 2nd/F (B-3)	19	7	2019	6x6x6	8.6	36	71	4420	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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supervisor(lab)

#### Director/Dy. Director Concrete Laboratory

9103 Dr. Umbreen



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

9103

Dr. Umbreen

To: Ch. Abdul Ghafoor (Resident Engineer)

PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group)

Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District (Package A)

 Our Ref. No. CL/CED/
 8813
 Dated:
 04-09-19

 Your Ref. No.
 RE/PEPAC/Sunder/A-197
 Dated:
 23-08-19

# **COMPRESSION TEST REPORT**

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

Specimens received on:

27-08-19 Tested on:

28-08-19 in dry/wet condition

		Casting Date*		Size	Weight	Area of	Ultimate	Ultimate		
Sr. No.	Mark*	M	/et V	Veight	(in)	(lbs./gms)	X-Section	load	Stress	Remarks
05		(gms)					(Sq. in)	(Tons/lbs)	(Psi)	
1	Slab 2nd/F (A-4)	23	7	2019	6x6x6	8.6	36	43	2680	Engraved
2	Slab 2nd/F (A-4)	23	7	2019	6x6x6	8.6	36	67	4170	Engraved
3	Slab 2nd/F (A-4)	23	7	2019	6x6x6	8.6	36	73	4550	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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supervisor(lab)



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

# To: Ch. Abdul Ghafoor (Resident Engineer) Dr. Umbreen PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package A) Our Ref. No. CL/CED/ 8814 Dated: 04-09-19

	0014	Datea.	04 00 10
Your Ref. No.	RE/PEPAC/Sunder/A-198	Dated:	23-08-19

## **COMPRESSION TEST REPORT**

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

Specimens received on:

27-08-19

Tested on:

28-08-19 in dry/wet condition

Sr. No.	Mark*		/et \	g Date* Veight ns)	Size (in)	Weight (Ibs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Col. F/F (A-5)	26	7	2019	6x6x6	8.6	36	90	5600	Engraved
2	Col. F/F (A-5)	26	7	2019	6x6x6	8.8	36	86	5360	Engraved
3	Col. F/F (A-5)	26	7	2019	6x6x6	9	36	94	5850	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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supervisor(lab)

#### Director/Dy. Director Concrete Laboratory

9103 r. Umbreen



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

#### To: Ch. Abdul Ghafoor (Resident Engineer) Dr. Umbreen PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package A) Our Ref. No. CL/CED/ 8815 Dated: 04-09-19

Your Ref. No	RE/PEPAC/Sunder/A-	199 Dated	d: 23-08-19	

Tested on:

# COMPRESSION TEST REPORT

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

Specimens received on:

27-08-19

28-08-19 in dry/wet condition

		Ca	sting	g Date*	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	Mark*	/Wet Weight			(in)	(lbs./gms)	X- Section	load	Stress	Remarks
			(gr	ms)			(Sq. in)	(Tons/lbs)	(Psi)	
1	Col. 3rd/F (A-9)	27	7	2019	6x6x6	8.6	36	84	5230	Engraved
2	Col. 3rd/F (A-9)	27	7	2019	6x6x6	8.4	36	88	5480	Engraved
3	Col. 3rd/F (A-9)	27	7	2019	6x6x6	8.6	36	71	4420	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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supervisor(lab)

#### **Director/Dy. Director Concrete Laboratory**

9103



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

To: Ch. Abdul Ghafoor (Resident Engineer) PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package B)

Our Ref. No. CL/CED/	8816	Dated:	04-09-19
Your Ref. No.	RE/PEPAC/Sunder/B-200	Dated:	23-08-19

## COMPRESSION TEST REPORT

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

Specimens received on:

27-08-19

Tested on:

28-08-19 in dry/wet condition

Sr. No.	Mark*		/et \	g Date* Weight ms)	Size (in)	Weight (Ibs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Slab F/F (B-2)	29	7	2019	6x6x6	8.6	36	77	4800	Engraved
2	Slab F/F (B-2)	29	7	2019	6x6x6	8.6	36	49	3050	Engraved
3	Slab F/F (B-2)	29	7	2019	6x6x6	8.4	36	79	4920	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 comprensive 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** 

9103 Dr. Umbreen



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

# To: Ch. Abdul Ghafoor (Resident Engineer) Engr. Aam PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package A)

Our Ref. No. CL/CED/	8817	Dated:	04-09-19
	RE/PEPAC/Sunder/A-		
Your Ref. No.	205	Dated:	02-09-19

#### **COMPRESSION TEST REPORT**

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

03-09-19 Specimens received on: Tested on: 03-09-19 in dry/wet condition Ultimate Casting Date\* Size Weight Area of Ultimate Š Х-/Wet Weight Remarks Mark\* (in) (lbs./gms) load Stress Section ົດ. (gms) (Sq. in) (Tons/lbs) (Psi) 1 Slab F/F (A-10) 30 7 2019 6x6x6 8.4 36 64 3990 Engraved 7 2 Slab F/F (A-10) 30 2019 6x6x6 8.4 36 59 3680 Engraved 3 Slab F/F (A-10) 2019 30 7 6x6x6 8.4 36 56 3490 Engraved 4 5 6 7 8 9 10 11 12 13 14 15 16

Results can also be seen on website <u>http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\_reports&id=6</u>

\* 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 comprensive 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**

9146 Engr. Aamina



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

#### To: Ch. Abdul Ghafoor (Resident Engineer)

9146 Engr. Aamina

PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package A)

Our Ref. No. CL/CED/	8818	Dated:	04-09-19
Your Ref. No.	RE/PEPAC/Sunder/A- 206	Dated:	02-09-19

#### **COMPRESSION TEST REPORT**

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

mens received on:		00-	09-19	Tested on	:	03-09-19 in dry/wet		ondition	
Mark*		Casting Date*		Size (in)	Weight (lbs./gms)	Area of X- Section	Ultimate load	Ultimate Stress	Remarks
		(g	ms)			(Sq. in)	(TONS/IDS)	(PSI)	
Col. 3rd/F (A-4)	4	8	2019	6x6x6	8.8	36	70	4360	Engraved
Col. 3rd/F (A-4)	4	8	2019	6x6x6	8.6	36	76	4730	Engraved
Col. 3rd/F (A-4)	4	8	2019	6x6x6	9	36	88	5480	Engraved
	Col. 3rd/F (A-4) Col. 3rd/F (A-4) Col. 3rd/F (A-4)	Mark* A Col. 3rd/F (A-4) 4 Col. 3rd/F (A-4) 4 Col. 3rd/F (A-4) 4 Col. 3rd/F (A-4) 4	Mark*       ////et         Col. 3rd/F (A-4)       4       8         Col. 3rd/F (A-4)       4       8 <t< td=""><td>Mark*       //Wet Weight         Col. 3rd/F (A-4)       4       8       2019         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I</td><td>Mark*       //Wet Weight       (in)         Col. 3rd/F (A-4)       4       8       2019       6x6x6         Image: Col. 3rd/F (A-4)       1       1       1       1         Image: Col. 3rd/F (A-4)       1       1       1       1         Image: Col. 3rd/</td><td>Mark*       //Wet Weight       (in)       (lbs./gms)         Col. 3rd/F (A-4)       4       8       2019       6x6x6       8.8         Col. 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       1       1       1         Image: Coll 3rd/F (A-4)       Image: Coll 3rd/F (A-4)       Image: Coll 3rd/F (A-4)       1</td><td>Mark*         //Wet Weight         (in)         (lbs./gms)         X-Section (Sq. in)           Col. 3rd/F (A-4)         4         8         2019         6x6x6         8.8         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         8.6         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Mark*         I         I         I         I         I         I         I           I         I         I         I         I         I         I         I           I         I         I         I         I         I         I</td><td>Mark*         <math>/// error er</math></td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td></t<>	Mark*       //Wet Weight         Col. 3rd/F (A-4)       4       8       2019         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I         I       I       I       I	Mark*       //Wet Weight       (in)         Col. 3rd/F (A-4)       4       8       2019       6x6x6         Image: Col. 3rd/F (A-4)       1       1       1       1         Image: Col. 3rd/F (A-4)       1       1       1       1         Image: Col. 3rd/	Mark*       //Wet Weight       (in)       (lbs./gms)         Col. 3rd/F (A-4)       4       8       2019       6x6x6       8.8         Col. 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       6x6x6       9         Image: Coll 3rd/F (A-4)       4       8       2019       1       1       1         Image: Coll 3rd/F (A-4)       Image: Coll 3rd/F (A-4)       Image: Coll 3rd/F (A-4)       1	Mark*         //Wet Weight         (in)         (lbs./gms)         X-Section (Sq. in)           Col. 3rd/F (A-4)         4         8         2019         6x6x6         8.8         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         8.6         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Col. 3rd/F (A-4)         4         8         2019         6x6x6         9         36           Mark*         I         I         I         I         I         I         I           I         I         I         I         I         I         I         I           I         I         I         I         I         I         I	Mark* $/// error er$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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 comprensive 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)



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

9146 Engr. Aamina

To: Ch. Abdul Ghafoor (Resident Engineer)

PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group)

Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District (Package A)

Our Ref. No. CL/CED/8819Dated:04-09-19Your Ref. No.RE/PEPAC/Sunder/A-207Dated:02-09-19

## **COMPRESSION TEST REPORT**

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

Specimens received on:

03-09-19

Tested on:

03-09-19 in dry/wet condition

Sr. No.	Mark*		Casting Date* /Wet Weight (gms)		Size (in)	Weight (Ibs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Slab 3rd/F (A-9)	8	8	2019	6x6x6	8.8	36	57	3550	Engraved
2	Slab 3rd/F (A-9)	8	8	2019	6x6x6	9	36	82	5110	Engraved
3	Slab 3rd/F (A-9)	8	8	2019	6x6x6	8.6	36	60	3740	Engraved
4										
5										
6										
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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 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)



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

To: Ch. Abdul Ghafoor (Resident Engineer) PEPAC (Pvt.) Ltd. Lahore (M/s Construction Group) Project: Establishment of Workers Welfare Complex (Phase-1), Adjacent to Sunder Industrial Estate District Kasur (Package B)

Our Ref. No. CL/CED/8820Dated:04-09-19RE/PEPAC/Sunder/B-<br/>Your Ref. No.208Dated:02-09-19

#### **COMPRESSION TEST REPORT**

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

03-09-19 Specimens received on: Tested on: 03-09-19 in dry/wet condition Ultimate Casting Date\* Size Weight Area of Ultimate ۶ Х-Remarks /Wet Weight Mark\* (in) (lbs./gms) load Stress Section ົດ. (gms) (Sq. in) (Tons/lbs) (Psi) 1 Slab 3rd/F (B-3) 8 2019 6x6x6 9 9 59 3680 Engraved 36 Slab 3rd/F (B-3) 2 9 8 2019 6x6x6 8.8 36 83 5170 Engraved 3 Slab 3rd/F (B-3) 9 8 2019 6x6x6 9 36 65 4050 Engraved 4 5 6 7 8 9 10 11 12 13 14 15 16

Results can also be seen on website <u>http://www.uet.edu.pk/faculties/facultiesinfo/department?RID=testing\_reports&id=6</u>

\* 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

9146 Engr. Aamina



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

To: Furqan Ali Malik (Chief Resident Engineer, Package-I)

9122 Engr. Aamina

CM Div., NESPAK (Pvt.) Ltd. Lahore (M/s Fast Track Construction Pvt. Ltd.) Project: Constt. & Rehab. of at Grade Works Along Lahore Orange Line Metro Train Corridor Package-1 (Section-I) Ring Road to Daroghwala Chowk (Both Side)(Punjab)

Our Ref. No. CL/CED	/ 8821	Dated:	04-09-19
Your Ref. No.	4042/13/FAM/Tough-Paver-081	Dated:	01-08-19

#### COMPRESSION TEST REPORT

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

Specimens received on:

29-08-19 Tested on:

03-09-19 in dry/wet condition

Sr. No.	Mark*	Casting Date* /Wet Weight (gms)	Size (in)	Weight (Ibs./gms)	Area of X- Section (Sq. in)	Ultimate load (Tons/lbs)	Ultimate Stress (Psi)	Remarks
1	Rectangular Grey		7.8x3.9x2.2	2843	30.42	94	6930	
2	Rectangular Grey		7.8x3.9x2.2	2716	30.42	88	6480	
3	Rectangular Grey		7.8x3.9x2.2	2817	30.42	96	7070	
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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 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)



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

To: Rai Muhammad Bilal (Resident Engineer)

9105 Dr. Aqsa

CM Div., NESPAK (Pvt.) Ltd. Lahore (M/s Rehman Brothers Construction Co.) Project:Lahore Rehabilitation of Roads (LDA) Package-III, Main Boulevard Garden Town Kalma Chowk to Barket Market, Lahore

Our Ref. No. CL/CED/	8822	Dated:	04-09-19
Your Ref. No.	4047-R3/13/RMB/1/3	Dated:	23-08-19

# **COMPRESSION TEST REPORT**

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

Specimens received on:

27-08-19 Tested on:

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29-08-19 in dry/wet condition

No.	Mark*	Casting Date* /Wet	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	Mark*	Weight	(in)	(lbs./gms)	X-Section	load	Stress	Remarks
		(gms)			(Sq. in)	(Tons/lbs)	(Psi)	
1	Rectangular Grey		7.8x3.9x3.0	3640	30.42	122	8990	
2	Rectangular Grey		7.8x3.9x3.0	3815	30.42	129	9500	
3	Rectangular Grey		7.8x3.9x3.0	3773	30.42	120	8840	
4	Rectangular Grey		7.8x3.9x3.0	3772	30.42	104	7660	
5	Rectangular Red		7.8x3.9x3.0	3601	30.42	110	8100	
6	Rectangular Red		7.8x3.9x3.0	3594	30.42	108	7960	
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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 comprensive 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)



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

#### To: Maple Construction. 54-C 1, Gulberg III, Lahore.

**Project: Nil** 

Our Ref. No. CL/CED/	8823	Dated:	04-09-19
Your Ref. No.	Nil	Dated:	27-08-19

## COMPRESSION TEST REPORT

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

Specimens received on:

27-08-19 Tested on:

29-08-19 in dry/wet condition

9109

Dr. Aqsa

1										
		Casting Date* Mark* /Wet Weight		Date*	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	Mark*			(in)	(lbs./gms)	X- Section	load	Stress	Remarks	
			(gn	ns)			(Sq. in)	(Tons/lbs)	(Psi)	
1		28	7	2019	6Diax12	14	28.28	71	5540	Engraved
2										
3										
4										
5										
6										
7										
8										
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10										
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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 comprensive 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)



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

#### To: Maple Construction. 54-C 1, Gulberg III, Lahore.

**Project: Nil** 

Our Ref. No. CL/CED/	8824	Dated:	04-09-19
Your Ref. No.	Nil	Dated:	27-08-19

## COMPRESSION TEST REPORT

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

27-08-19

Specimens received on:

Tested on:

29-08-19 in dry/wet condition

9109

Dr. Aqsa

					0					
ġ		Casting Date*		g Date*	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	Mark*	/W	/Wet Weight		(in)	(lbs./gms)	X- Section	load	Stress	Remarks
			(gn	ns)			(Sq. in)	(Tons/lbs)	(Psi)	
1		28	7	2019	6Diax12	14	28.28	70	5460	Engraved
2										
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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 comprensive 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)



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

#### To: Maple Construction. 54-C 1, Gulberg III, Lahore.

**Project: Nil** 

Our Ref. No. CL/CED/ 8825 Dated: 04-09-19 Dated: Your Ref No Nil 27-08-19

## COMPRESSION TEST REPORT

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

Specimens received on:

Tested on:

29-08-19 in dry/wet condition

27-08-19 Casting Date\* Size Weight Area of Ultimate Ultimate Š X-Mark\* /Wet Weight (in) (lbs./gms) load Stress Remarks Section ي. ت (gms) (Tons/lbs) (Sq. in) (Psi) 2019 1 29 7 6Diax12 13.8 28.28 64 4990 Engraved 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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 comprensive 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**

9109 Dr. Aqsa



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

#### To: Maple Construction. 54-C 1, Gulberg III, Lahore.

**Project: Nil** 

Our Ref. No. CL/CED/	8826	Dated:	04-09-19
Your Ref. No.	Nil	Dated:	27-08-19

## COMPRESSION TEST REPORT

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

Specimens received on:

Tested on: 27-08-19

29-08-19 in dry/wet condition

9109

Dr. Aqsa

1										
		Cas	sting	Date*	Size	Weight	Area of	Ultimate	Ultimate	
Sr. No.	Mark*	/Wet Weight		Veight	(in)	(lbs./gms)	X- Section	load	Stress	Remarks
			(gn	ns)			(Sq. in)	(Tons/lbs)	(Psi)	
1		29	7	2019	6Diax12	14	28.28	68	5300	Engraved
2										
3										
4										
5										
6										
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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 comprensive 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)