

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.

> 8933 Dr. M. Mazhar

**Test Specification** 

To: Engr's. Qaiser Aziz

Site Engineer, OZ Developers Pvt. Ltd.

Project: Constructing a High Rise Building "Bahria Sky" at Bahria Orchard Phase 4, Lahore.

Our Ref. No. CL/CED/ 7412 Dated: 18/02/2025

Your Ref. No. Nil Dated: 18/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 18/02/2025 Tested on: 18/02/2025 in dry/wet condition



Sr. No.	Mark*	Cas		Date*	Size (in)	Wet Weight (Ka/ ams)	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)		Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
1		7	2	2025	6Diax12		13.6	28.28	38	3010		Non Engraved
2		7	2	2025	6Diax12		14.6	28.28	36	2851		Non Engraved
3		7	2	2025	6Diax12		14.2	28.28	38	3010		Non Engraved
4												
5						GINE	RING					
6						READ IN	2000	<b>X</b>				
7						THE NAME OF THY LORD WHO	<u>رغب</u> الدي خلف	<u></u>				
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10						"-LA	ORE					
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14												
15												
16												

Witnessed by: Engr. Qaiser Aziz CNIC # 36302-9254362-7 & Mr. Azhar Abbas CNIC # 32303-1163185-9

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>
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

- 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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8901 Dr. M. Yousaf

To: Admin Manager

Ahbab Housing Society (Pvt) Ltd, Johar Town, Lahore

Project: Construction of Plot No. 24 Block Q Shah Alam Road, Johar Town Lahore

Our Ref. No. CL/CED/ 7413 Dated: 18/02/2025

**Test Specification** Your Ref. No. AHS/363-A/02/2025-By Hand 12/02/2025 ( ASTM C39 ) Dated:

### **COMPRESSION TEST REPORT**

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

13/2/2025 18/02/2025 Specimens received on: Tested on: in dry/wet condition



Sr. No.	Mark*		Casting Date*		Size	Wet Weight		Area of X-Section	load	Ultimate Stress	Water Absorpti on (%)	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	OH (78)	
1	4500 Psi	3	2	2025	6Diax12		14	28.28	38	3010		Non Engraved
2	4500 Psi	3	2	2025	6Diax12		14	28.28	54	4277		Non Engraved
3												
4												
5						GINE	RINE					
6					}	READ IN	200	<b>X</b>				
7						THE NAME OF THY LORD WHO	( <u>)</u>	<b>3</b>				
8						Jan.		5 -				
9						<b></b>		5/				
10						LA	IORE					
11												
12												
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16										-		

Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

- 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 comprerssive strength

- 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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**ORIGINAL** 

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8896 Dr. M. Yousaf

**Test Specification** 

To: Admin Manager

Ahbab Housing Society (Pvt) Ltd, Johar Town, Lahore

Project: Construction of Plot No. 24 Block Q Shah Alam Road, Johar Town Lahore

Our Ref. No. CL/CED/ 7414 Dated: 18/02/2025

Your Ref. No. AHS/364/02/2025-By Hand Dated: 12/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 13/2/2025 Tested on: 18/02/2025 in dry/wet condition



Sr. No.	No. Mark*			Date*	Size	Wet Weight		Area of X-Section	load	Ultimate Stress	Water Absorpti on (%)	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	OII ( /0)	
1	3000 Psi	8	1	2025	6Diax12		13.6	28.28	45	3564		Non Engraved
2	3000 Psi	8	1	2025	6Diax12		13.8	28.28	38	3010		Non Engraved
3												
4												
5						GINE	RINE					
6						READ IN	200	<b>X</b>				
7						THE NAME OF THY LORD WHO	( j					
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9						<b></b>		5/				
10						-LA	ORE					
11												
12												
13												
14												
15												
16										-		

#### Witnessed by:

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8866 Dr. M. Yousaf

To: Sub Divisional Officer

**Link Sub Division Lahore** 

רוסן בנוסו טו שמופט הווא המארטונו. בטסדיטטע נט בססדיטטע טו שמשט בוווא המווא טו באפט בוווא המווא טו באפט בוווא המווא טו Chakbandi Division, Lahore Package B (Raft of Upstream floor Head Regulator at RD: 251+000/L BRBD Link

Canal\

Our Ref. No. CL/CED/ 7415

Dated:

18/2/2025

**Test Specification** 

Your Ref. No. 59/1-G

Dated:

01/02/2025

( ASTM C39 )

### **COMPRESSION TEST REPORT**

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

Specimens received on: 10/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section	Ultimate load	Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	4000 Psi	4	1	2025	6Diax12		14	28.28	45	3564		Non Engraved
2	4000 Psi	4	1	2025	6Diax12		14	28.28	44	3485		Non Engraved
3	4000 Psi	4	1	2025	6Diax12		14.2	28.28	37	2931		Non Engraved
4							-			1		
5						RINE	RINTE					
6						READ IN	2021					
7						THE NAME OF THY LORD WHO	(4)(4)	<b>3</b>				
8					ss	Juliano				1		
9								V				
10						-LA	ORE					
11							-			1		
12										1		
13												
14												
15												
16										-		

Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

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8866 Dr. M. Yousaf

To: Sub Divisional Officer

Ravi Syphon Sub Division, Batapur, Lahore

רוסן בנו. כטוואנועכנוטוו טו שמופע הפמע הפעטומנטיא וווא הט.צטסדטטט נט צססדטטט טו באדם בוווג כמוומן טו (Package C) (AT H/R RD, 266+000/L Downstream Stilling Basin / Cistern Left Side Wall (H/C 8Ft), Downstream

Of End Sill Cut of Walls Laft & Right Our Ref. No. CL/CED/ 7416

Dated: 18/2/2025

Test Specification

Your Ref. No. 07/Camp

Dated: 06/01/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 10/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*		Casting Date*		Size	Wet Weight		Area of X-Section	load	Ultimate Stress	Water Absorpti on (%)	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	OII ( /0)	
1	266+000/L (1:1.45:2.20)	9	12	2024	6Diax12		14	28.28	66	5228		Non Engraved
2	266+000/L (1:1.45:2.20)	9	12	2024	6Diax12		14.2	28.28	62	4911		Non Engraved
3	266+000/L (1:1.45:2.20)	9	12	2024	6Diax12		14.4	28.28	58	4594		Non Engraved
4												
5						CINE	RINA					
6						READ IN	200			1		
7						THE NAME OF THY LORD WHO	( j	<u> </u>				
8					80							
9												
10						"-LA	ORE					
11							-			1		
12												
13												
14												
15												
16										-		

#### Witnessed by:

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- 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

- 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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> 8866 Dr. M. Yousaf

To: Sub Divisional Officer

Your Ref. No.

**Link Sub Division Lahore** 

Project. Construction of Galeu nead Regulators ווסות אם.בטסדטטט נס בססדטטט סו באפט בוווג Canal of ChakBandi Division, Lahore Package B (Upstream Left Side Wall Inner at Prism Head Regulator at

Our Ref. No. CL/CED/ 7417

63/1-G

ef. No. CL/CED/ 7417 Dated:

ed: 18/2/2025

Test Specification

Dated: 06/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 10/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	sr. No. Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section	Ultimate load	Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	4000 Psi	9	1	2025	6Diax12		14	28.28	37	2931		Non Engraved
2	4000 Psi	9	1	2025	6Diax12		14	28.28	46	3644		Non Engraved
3	4000 Psi	9	1	2025	6Diax12		14.2	28.28	55	4356		Non Engraved
4							-			1		
5						RINE	RINZ			1		
6					}	READ IN	2001	<b>X</b>				
7						THE NAME OF THY LORD WHO	( <u></u> ( <del></del> )					
8					8		<u> </u>	Ha				
9								<b></b> -				
10						-LA	ORE					
11												
12												
13												
14												
15												
16										-		

#### Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

- 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

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8866 Dr. M. Yousaf

To: Sub Divisional Officer

Your Ref. No.

Ravi Syphon Sub Division, Batapur, Lahore

22/Camp

Project: Construction of Gated Head Regulators from RD:205+000 to 283+000 of BRBD Link Canal of

(Package C) (AT H/R RD:266+000/L Upstream Floor Slab.

Our Ref. No. CL/CED/ 7418

Dated: 18/2/2025

Test Specification
( ASTM C39 )

Dated: 07/02/2025

### **COMPRESSION TEST REPORT**

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

Specimens received on: 10/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Sr. No. Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section	Ultimate load	Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	266+000/L (1:1.45:2.20)	12	1	2025	6Diax12		14.2	28.28	32	2535		Non Engraved
2	266+000/L (1:1.45:2.20)	12	1	2025	6Diax12		14	28.28	62	4911		Non Engraved
3	266+000/L (1:1.45:2.20)	12	1	2025	6Diax12		14	28.28	28	2218		Non Engraved
4												
5						GINE	RINZ					
6						READ IN	200 D	<b>X</b>				
7						THE NAME OF THY LORD WHO	( <u>) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )</u>	193				
8						Johnson		<b>5</b>				
9								<u></u>				
10						-LA	ORE					
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12												
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15												
16												

#### Witnessed by:

 $Results\ can\ also\ be\ seen\ on\ website\ \underline{https://civil.uet.edu.pk/concrete-laboratory-reports1/2}$ 

- 1. \* as engraved on the specimens (if any)
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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 compressive strength

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> 8866 Dr. M. Yousaf

To: Sub Divisional Officer

**Link Sub Division Lahore** 

Project. Construction of Gated Head Regulators from RD.2007000 to 2007000 of BRBD Link Canal of ChakBandi Division, Lahore Package B (Upstream Right Side Wall Inner Prism Head Regulator at RD.2514000/J. BRBD Link Canal

Our Ref. No. CL/CED/ 7419

0/ 7419 Dat

Your Ref. No. 62/1-G

Dated: 18/2/2025

Dated:

06/02/2025

Test Specification

( ASTM C39 )

### **COMPRESSION TEST REPORT**

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

Specimens received on: 10/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*		Casting Date*		Size	Wet Weight	Dry Weight	Area of X-Section	load	Ultimate Stress	Water Absorpti on (%)	Remarks
		טט	IVIIVI	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	, ,	
1	4000 Psi	7	1	2025	6Diax12		14	28.28	54	4277		Non Engraved
2	4000 Psi	7	1	2025	6Diax12		14	28.28	41	3248		Non Engraved
3	4000 Psi	7	1	2025	6Diax12		14	28.28	64	5069		Non Engraved
4												
5						CINE	RINE					
6					}	READ IN	2001	<b>X</b>				
7						THE NAME OF THY LORD WHO	( <u></u> ( <del>)</del>					
8					- 00	J. C.		5 -				
9						<b></b>		5				
10						-LA	IORE					
11												
12												
13												
14												
15												
16												

Witnessed by:

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- 3. \*\*\* BS5328 requires mean of two cube sample strength at 28 days as characteristic strength
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> 8914 Dr. M. Yousaf

**Test Specification** 

To: Mr. Muhammad Sajjad

Project Incharge

Project: Construction of House No. 60, C Block Model Town Lahore.

Our Ref. No. CL/CED/ 7420 Dated: 18/2/2025

Your Ref. No. Nil Dated: Nil (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 14/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.		Cas		Date*	Size	Wet Weight		Area of X-Section	load	Ultimate Stress	Water Absorpti on (%)	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	OH (%)	
1	5th Floor Slab (3000 Psi)	7	2	2025	6Diax12		13.8	28.28	58	4594		Non Engraved
2	5th Floor Slab (3000 Psi)	7	2	2025	6Diax12		14	28.28	63	4990		Non Engraved
3	5th Floor Slab (3000 Psi)	7	2	2025	6Diax12		14	28.28	53	4198		Non Engraved
4												
5						RINE	RINA					
6						READ IN	2001					
7						THE NAME OF THY LORD WHO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100		1		
8					ss	Juliano				1		
9								6/		1		
10						-LA	ORE					
11												
12												
13												
14												
15												
16										-		

#### Witnessed by:

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8891 Dr. M. Yousaf

**Test Specification** 

To: Engr. M. Ahmad Baig

Project Manager, UMT Lahore

Project: Exhibition Hall (Wall Footing = 01-02-(A-F))

Our Ref. No. CL/CED/ 7421 Dated: 18/2/2025

Your Ref. No. EXB-1/133 Dated: 09/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Casting Date*			Size	Wet Weight		Area of X-Section	load	Ultimate Stress	Water Absorpti on (%)	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	(//	
1	3000 Psi	12	1	2025	6Diax12		13.8	28.28	68	5386		Non Engraved
2	3000 Psi	12	1	2025	6Diax12		14	28.28	57	4515		Non Engraved
3												
4												
5						GINE	RINE					
6						READ IN	200					
7						THE NAME OF THY LORD WHO		100		1		-
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#### Witnessed by:

 $Results\ can\ also\ be\ seen\ on\ website\ \underline{https://civil.uet.edu.pk/concrete-laboratory-reports1/2}$ 

- 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

- 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.



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.

> 8891 Dr. M. Yousaf

**Test Specification** 

To: Engr. M. Ahmad Baig

Project Manager, UMT Lahore

Project: Exhibition Hall (Column=03-(C-E), 04-(D), 04a(F3) 2nd Step, 04b-(H2-H3) Beam, H3-(C11) 4th Step

Our Ref. No. CL/CED/ 7422 Dated: 18/2/2025

Your Ref. No. EXB-1/136 Dated: 09/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



6Diax12	/ gms) (Kg/ gms) 14	28.28	(Imp.Tons) 70	(psi) 5545	on (%)	
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#### Witnessed by:

 $Results\ can\ also\ be\ seen\ on\ website\ \underline{https://civil.uet.edu.pk/concrete-laboratory-reports1/2}$ 

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**ORIGINAL** 

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

8891 Dr. M. Yousaf

To: Engr. M. Ahmad Baig

Project Manager, UMT Lahore

Project: Exhibition Hall (Wall Footing= 01-02-(A-F))

Our Ref. No. CL/CED/ 7423 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. EXB-1/134 Dated: 09/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	3900 Psi	12	1	2025	6Diax12		14	28.28	56	4436		Non Engraved
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#### Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

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



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**ORIGINAL** 

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> 8891 Dr. M. Yousaf

**Test Specification** 

To: Engr. M. Ahmad Baig

Project Manager, UMT Lahore

Project: Exhibition Hall (Column=03-(C-E), 04-(D), 04a(F3) 2nd Step, 04b-(H2-H3) Beam, H3-(C11) 4th Step

Our Ref. No. CL/CED/ 7424 Dated: 18/2/2025

Your Ref. No. EXB-1/135 Dated: 09/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Mark*	Casting Date*  DD MM YYYY	Size	Wet Weight	Dry Weight		load	Ultimate Stress	Absorpti	Remarks		
	DD	ММ	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	011 (70)	
4000 Psi	12	1	2025	6Diax12		14	28.28	63	4990		Non Engraved
4000 Psi	12	1	2025	6Diax12		14	28.28	58	4594		Non Engraved
					GINE	RINE					
				)	READ IN	200	<b>X</b>				
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	4000 Psi  4000 Psi	Mark* DD 4000 Psi 12 4000 Psi 12	Mark* DD MM 4000 Psi 12 1 4000 Psi 12 1	Mark*  DD MM YYYY  4000 Psi 12 1 2025  4000 Psi 12 1 2025	Mark* DD MM YYYY (in)  4000 Psi 12 1 2025 6Diax12  4000 Psi 12 1 2025 6Diax12	Mark*  DD MM YYYY  (in) (Kg/gms)  4000 Psi 12 1 2025 6Diax12  4000 Psi 12 1 2025 6Diax12	Mark*	Mark*   Casting Date*   Size   Weight   Weight   X-Section	Mark*   Casting Date*   Size   Weight   Weight   Weight   Weight   Weight   Weight   Meight   Meight	Mark*         Casting Date*         Size         Weight (Kg/gms)         Weight (Kg/gms)         X-Section (Sq. in) (Imp.Tons)         load (psi)           4000 Psi         12         1         2025         6Diax12          14         28.28         63         4990           4000 Psi         12         1         2025         6Diax12          14         28.28         58         4594	Mark*

Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

- 1. \* as engraved on the specimens (if any)
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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 compressive strength

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



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**ORIGINAL** 

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

> 8891 Dr. M. Yousaf

To: Engr. M. Ahmad Baig

Project Manager, UMT Lahore

Project: Exhibition Hall (Columns=03-04-(J-K-L-M)-2nd Step, 04-(N)-1st Step, 04a-(J2-K1)-1st Step, 04a-04b-

(H3)-3rd Step, 04b-(F3)-C14-2nd Step, 04b-(H2-H3-H2)-3rd Step

Our Ref. No. CL/CED/ 7425 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. EXB-1/132 Dated: 06/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section	Ultimate load	Ultimate Stress	Absorpti	Remarks
		DD	ММ	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	5100 Psi	30	1	2025	6Diax12		14	28.28	45	3564		Non Engraved
2	5100 Psi	30	1	2025	6Diax12		13.6	28.28	52	4119		Non Engraved
3	5100 Psi	30	1	2025	6Diax12		14	28.28	53	4198		Non Engraved
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14												
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#### Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

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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.

> 8891 Dr. M. Yousaf

To: Engr. M. Ahmad Baig

Project Manager, UMT Lahore

Project: Exhibition Hall (Columns=03-04-(J-K-L-M)-2nd Step, 04-(N)-1st Step, 04a-(J2-K1)-1st Step, 04a-04b-

(H3)-3rd Step, 04b-(F3)-C14-2nd Step, 04b-(H2-H3-H2)-3rd Step

Our Ref. No. CL/CED/ 7426 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. EXB-1/131 Dated: 06/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	4000 Psi	30	1	2025	6Diax12		13.8	28.28	48	3802		Non Engraved
2	4000 Psi	30	1	2025	6Diax12		13.8	28.28	38	3010		Non Engraved
3	4000 Psi	30	1	2025	6Diax12		13.4	28.28	47	3723		Non Engraved
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#### Witnessed by:

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**ORIGINAL** 

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

8892 Dr. M. Yousaf

To: MASS Engineering Solutions (Pvt) Limited

Phase-II, DHA, Lahore.

Project: Nil

Your Ref. No.

Our Ref. No. CL/CED/ 7427

Dated: 18/2/2025

**Test Specification** 

Dated: 12/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas		Date*	Size (in)	Wet Weight	Dry Weight (Kg/ gms)	Area of X-Section (Sq. in)		Ultimate Stress (psi)	Water Absorpti on (%)	Remarks
1	3000 Psi	26	1	2025	6Diax12		14	28.28	44	(psi) 3485		Non Engraved
2	3000 Psi	26	1	2025	6Diax12		14	28.28	54	4277		Non Engraved
3	3000 Psi	26	1	2025	6Diax12		14	28.28	55	4356		Non Engraved
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13												
14												
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#### Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

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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.

8886 Dr. M. Yousaf

**Test Specification** 

To: Mr. Ali Khwaja

Director, OAKTREE Designs, Phase 6, DHA Lahore

Project: 45 Sarwar Colony Cantt, Lahore.

Our Ref. No. CL/CED/ 7428 Dated: 18/2/2025

Your Ref. No. Nil Dated: 10/02/2025 (ASTM C39)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 12/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	3000 Psi	21	1	2025	6Diax12		14	28.28	40	3168		Non Engraved
2	3000 Psi	21	1	2025	6Diax12		14	28.28	42	3327		Non Engraved
3	3000 Psi	21	1	2025	6Diax12		14	28.28	56	4436		Non Engraved
4	3000 Psi	21	1	2025	6Diax12		14	28.28	56	4436		Non Engraved
5						GINE	RINE					
6						READ IN	200					
7						THE NAME OF THY LORD WHO		100				
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Witnessed by:

 $Results\ can\ also\ be\ seen\ on\ website\ \underline{https://civil.uet.edu.pk/concrete-laboratory-reports1/2}$ 

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

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

> 8930 Dr. M. Yousaf

To: Sub Divisional Officer

Public Health Engineering Sub Division, Kasur

Project: Construction of Sewerage/Water Supply & Drainage Scheme at Khokhar Touchar, Biya Singh, Bhair

& Bhagiana & Adjoining Abadies, Tehsil & District Kasur

Our Ref. No. CL/CED/ 7429

Dated: 18/2/2025

**Test Specification** 

Your Ref. No. No. 40

Dated: 10/02/2025

(BS 1881-116)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 17/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Water Absorpti	Remarks
51. 140.	Walk	DD	мм	YYYY	(in)	_	(Kg/ gms)		(Imp.Tons)		on (%)	Remarks
1	PCC (1:2:4)	27	1	2025	6x6x6		9.2	36	105	6533		Non Engraved
2												
3												
4												
5						MAINE	RINE					
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#### Witnessed by:

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- 1. \* as engraved on the specimens (if any)
- 2. \*\* BS3921 requires average of ten clay brick samples for crushing strength and water absorption
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- 2. The test results are recommended to be interpreted in the light of above factors by the engineer.



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.

> 8930 Dr. M. Yousaf

To: Sub Divisional Officer

Your Ref. No.

Public Health Engineering Sub Division, Kasur

Project: Construction of Sewerage/Water Supply & Drainage Scheme at Qila Natha Singh & Pakhoki &

Adjoining Abadies, Tehsil & District Kasur.

No. 41

Our Ref. No. CL/CED/ 7430

Dated: 18/2/2025

**Test Specification** 

Dated: 10/02/2025

(BS 1881-116)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 17/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Water Absorpti	Remarks
		DD	ММ	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	PCC (1:2:4)	21	1	2025	6x6x6		9.4	36	96	5973		Non Engraved
2												
3												
4												
5						GINE	RING					
6					}	READ IN	2000	<b>X</b>				
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9				-				<b>5</b> /				
10				-		-LA	ORE					
11				-								
12				-						1		
13												
14												
15												
16												

#### Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

- 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

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



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.

8897 Dr. M. Yousaf

To: Assistant Engineer

LG & CD Department, Civil Sub Division Kasur

Project: Construction of PCC/ Soling/ Culverts/ Drainage at Gohar and Hussain Khan Wala Adjoining Abadies

Tehsil Chunian District Kasur.

Our Ref. No. CL/CED/ 7431 Dated: 18/2/2025 Test Specification

Your Ref. No. AE(LG&CD)-2025/21 Dated: 21/01/2025 (BS 1881-116)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 13/2/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	ММ	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	PCC (1:2:4)	3	1	2025	6x6x6		9	36	85	5289		Non Engraved
2	PCC (1:2:4)	3	1	2025	6x6x6		9	36	101	6284		Non Engraved
3												
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#### Witnessed by:

Results can also be seen on website <a href="https://civil.uet.edu.pk/concrete-laboratory-reports1/">https://civil.uet.edu.pk/concrete-laboratory-reports1/</a>

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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 compressive strength

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



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.

> 8838 Dr. M. Yousaf

To: Mr. Abid Azim

Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd

Project: Rehabilitation / Improvement of Roads Noor Road, Green Park, Kacha, Iron Market & Misri Shah UC

30 Ravi Zone MCL.

Our Ref. No. CL/CED/ 7432 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. 4084/103/LDP/Ravi/04/67 Dated: 20/1/2025 (BS 3921\*\*)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 04/02/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	5				8.8 x 4.1 x 2.9	3335	2950	36.08	34	2111	13.05	
2	5				8.7 x 4.2 x 2.8	3240	2990	36.54	37	2268	8.36	
3	5				8.8 x 4.1 x 2.9	3020	2820	36.08	36	2235	7.09	
4	5				8.9 x 4.2 x 2.8	3395	3035	37.38	36	2157	11.86	
5	5				8.8 x 4.1 x 2.9	3130	2925	36.08	33	2049	7.01	
6	5				8.9 x 4.2 x 3	3205	2990	37.38	28	1678	7.19	
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#### Witnessed by:

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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 compressive strength

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**ORIGINAL** 

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

8838 Dr. M. Yousaf

To: Mr. Abid Azim

Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd

Project: Rehabilitation / Improvement of Street Pavement, Drainage Link, Saggian Bypass Road, UC-01, Ravi

Zone MCL.

Our Ref. No. CL/CED/ 7433 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. 4084/103/LDP/Ravi/04/69 Dated: 20/1/2025 (BS 3921\*\*)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 04/02/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	ММ	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	5				8.7 x 4.2 x 3	3190	2840	36.54	35	2146	12.32	
2	5				8.9 x 4.1 x 2.9	3150	2910	36.49	36	2210	8.25	
3	5				8.8 x 4.2 x 2.8	3245	2965	36.96	31	1879	9.44	
4	5				8.8 x 4.1 x 2.8	3335	2960	36.08	32	1987	12.67	
5	5				8.8 x 4 x 2.8	3005	2630	35.2	33	2100	14.26	
6	5				8.8 x 4.1 x 2.9	3265	2870	36.08	34	2111	13.76	
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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 compressive strength

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



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

> 8838 Dr. M. Yousaf

**Test Specification** 

To: Mr. Abid Azim

Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd

Project: Rehabilitation / Improvement of Street Pavement, Sewerage/ Drainage, Ilam Din Block, Shokat

Colony, Miraj Park, Begum Kot, Bashir Colony, Yousaf Park, UC-01 802, Ravi Zone MCL

Our Ref. No. CL/CED/ 7434 Dated: 18/2/2025

Your Ref. No.

4084/103/LDP/Ravi/04/70 Dated: 20/1/2025 (BS 3921\*\*)

### **COMPRESSION TEST REPORT**

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

04/02/2025 Tested on: 18/2/2025 Specimens received on: in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight		Area of X-Section	load	Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	5				8.8 x 4 x 2.8	3095	2740	35.2	29	1845	12.96	
2	5				8.8 x 4.1 x 2.9	3230	2865	36.08	27	1676	12.74	
3	5				8.7 x 4 x 2.9	3235	2900	34.8	39	2510	11.55	
4	5				8.8 x 4.1 x 2.8	3390	3010	36.08	19	1180	12.62	
5	5				8.9 x 4.1 x 2.8	3225	2870	36.49	26	1596	12.37	
6	5				8.9 x 4.1 x 2.9	3205 READ IN	2845	36.49	30	1842	12.65	
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- 4. \*\*\*\* ACI318-08 requires mean of two sample (6"diax12" cylinder) strength at 28 days as comprerssive strength

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8838 Dr. M. Yousaf

(BS 3921\*\*)

To: Mr. Abid Azim

Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd

Project: Rehabilitation / Improvement of Street Pavement, Sewerage/ Drainage, UC-29, 30, Ravi Zone MCL

Our Ref. No. CL/CED/ 7435 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. 4084/103/LDP/Ravi/04/68 Dated: 20/1/2025

### **COMPRESSION TEST REPORT**

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

Specimens received on: 04/02/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	
1	5				8.8 x 4 x 2.9	3345	2970	35.2	35	2227	12.63	
2	5				8.8 x 4 x 2.8	3095	2770	35.2	26	1655	11.73	
3	5				8.9 x 4.1 x 2.9	3295	2910	36.49	34	2087	13.23	
4	5				8.8 x 4.2 x 2.8	3365	3000	36.96	35	2121	12.17	
5	5				8.9 x 4.1 x 2.9	3305	2960	36.49	36	2210	11.66	
6	5				8.8 x 4 x 2.8	3240	2900	35.2	35	2227	11.72	
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**ORIGINAL** 

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> 8838 Dr. M. Yousaf

To: Mr. Abid Azim

Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd

Project: Rehabilitation / Improvement of Street Pavement, Sewerage/ Drainage, Mustafabad, Saeed Park,

Timber Market, Qila Lachman Singh, UC-13, 15 & 16, Ravi Zone MCL

Our Ref. No. CL/CED/ 7436 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. 4084/103/LDP/Ravi/04/71 Dated: 20/1/2025 (BS 3921\*\*)

### **COMPRESSION TEST REPORT**

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

Specimens received on: 04/02/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Cas	ting	Date*	Size	Wet Weight	Dry Weight	Area of X-Section	Ultimate load	Ultimate Stress	Absorpti	Remarks
		DD	MM	YYYY	(in)	(Kg/ gms) (Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)		
1	5				8.7 x 4.1 x 2.9	3100	2740	35.67	23	1444	13.14	
2	5				8.8 x 4 x 2.8	3325	2970	35.2	34	2164	11.95	
3	5				8.9 x 4.1 x 2.9	3185	2860	36.49	28	1719	11.36	
4	5				8.8 x 4 x 2.8	3120	2790	35.2	25	1591	11.83	
5	5				8.7 x 4.2 x 2.9	3395	3020	36.54	35	2146	12.42	
6	5				8.9 x 4.2 x 2.9	3300 REAU IN	2970	37.38	34	2037	11.11	
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#### Witnessed by:

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**ORIGINAL** 

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

8873 Dr. M. Yousaf

( ---- )

To: Mr. M. Hassan Khan

Resident Engineer, Highways and Transportation Engineering Division, NESPAK (Pvt) Ltd.

Project: Scheme #18 Rehabilitation / Improvement / Patch Work of Link Road UC-128, 129, 130, 161, 162, 163

Shalamar Zone Phase-II.

Our Ref. No. CL/CED/ 7437 Dated: 18/2/2025 <u>Test Specification</u>

Your Ref. No. 4084/103/LDP/SMZ(S-18)/04/28 Dated: 17/1/2025

### **COMPRESSION TEST REPORT**

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

Specimens received on: 10/02/2025 Tested on: 18/2/2025 in dry/wet condition



Sr. No.	Mark*	Casting Date*			Size	Wet Weight	Dry Weight	Area of X-Section		Ultimate Stress	Absorpti	Remarks
		DD	ММ	YYYY	(in)	(Kg/ gms)	(Kg/ gms)	(Sq. in)	(Imp.Tons)	(psi)	on (%)	)
1	B2				9 x 4.4 x 3.1	3860	3400	39.6	42	2376	13.53	-
2	B2				8.9 x 4.3 x 3	3690	3225	38.27	34	1990	14.42	
3	BS2				9 x 4.3 x 3.2	4020	3550	38.7	40	2315	13.24	
4	BS2				9 x 4.4 x 3.2	4010	3545	39.6	43	2432	13.12	
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