

CHECKLIST FOR CONCRETE CUBES

Project: CONSTRUCTION OF SAMIA HOUSING SCHEME – KAPE PROJECT ON PLOT NO. 709,
KAWE KINONDONI MUNICIPALITY – DAR ES SALAAM

Job No

Checker

Report Ref

Date

Date of Report.....

Page

Contractor: NATIONAL HOUSING CORPORATION.

Casting date	Testing date	Structure	Age (Days)	Grade	Weight (Kg)	Strength (N/mm ²)
16/7/2024	23/7/2024	UPPER ROOF SLAB BLOCKS	7	C25	8.53	18.6
16/7/2024	13/8/2024	UPPER ROOF SLAB BLOCKS	28	C25	8.72	29.1
17/7/2024	24/7/2024	UPPER ROOF SLAB BLOCK D	7	C25	8.37	20.3
17/7/2024	14/8/2024	UPPER ROOF SLAB BLOCK D	28	C25	8.56	29.2
22/7/2024	29/7/2024	UPPER ROOF SLAB BLOCK C	7	C25	8.47	19.8
22/7/2024	19/8/2024	UPPER ROOF SLAB BLOCK C	28	C25	8.56	28.2
23/7/2024	30/7/2024	UPPER ROOF SLAB BLOCK A	7	C25	8.40	22.7
23/7/2024	20/8/2024	UPPER ROOF SLAB BLOCK A	28	C25	8.55	31.0
25/7/2024	11/8/2024	UPPER ROOF SLAB BLOCK G	7	C25	8.52	20.5
25/7/2024	22/8/2024	UPPER ROOF SLAB BLOCK G	28	C25	8.60	30.7
27/7/2024	3/8/2024	UPPER ROOF SLAB BLOCK H	7	C25	8.56	23.0

Review notes/ Comments:

Checker:	Project Manager:	Approver:
Sign:	Sign:	Sign:
Date:	Date:	Date:

Distribution: Original to QMR, Copy to file and Project Manager

CHECKLIST FOR CONCRETE CUBES

Project: CONSTRUCTION OF SAMIA HOUSING SCHEME – Kawe Project on PLOT NO. 709,
Kawe Kinondoni Municipality – Dar es Salaam

Job No

Checker

Report Ref

Date

Date of Report.....

Page

Contractor: NATIONAL HOUSING CORPORATION.

Casting date	Testing date	Structure	Age (Days)	Grade	Weight (Kg)	Strength (N/mm ²)
27/7/2024	24/8/2024	UPPER ROOF SLAB BLOCK H	28	C25	8.74	30.6
28/7/2024	4/8/2024	UPPER ROOF SLAB BLOCK F	7	C25	8.55.	22.0
28/7/2024	26/8/2024	UPPER ROOF SLAB BLOCK F	28	C25	8.61	30.4

Review notes/ Comments:

Checker:	Project Manager:	Approver:
Sign:	Sign:	Sign:
Date:	Date:	Date:

Distribution: Original to QMR, Copy to file and Project Manager

QMS-NHC-OP404F2

	UNIVERSITY OF DAR ES SALAAM	
	DEPARTMENT OF STRUCTURES & CONSTR ENGG	
	P.O.BOX 35131, Dar es Salaam	

STRUCTURES AND BUILDING MATERIALS LAB		
Tel: 022-2410500-8 Ezt 2800 E-Mail: head_sce@udsml.ac.tz		
DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES		

CLIENT:	NHC	PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT NO. 709, KAWE KINONDONI MUNICIPALITY - DAR ES SALAAM	
			Size	15 cm

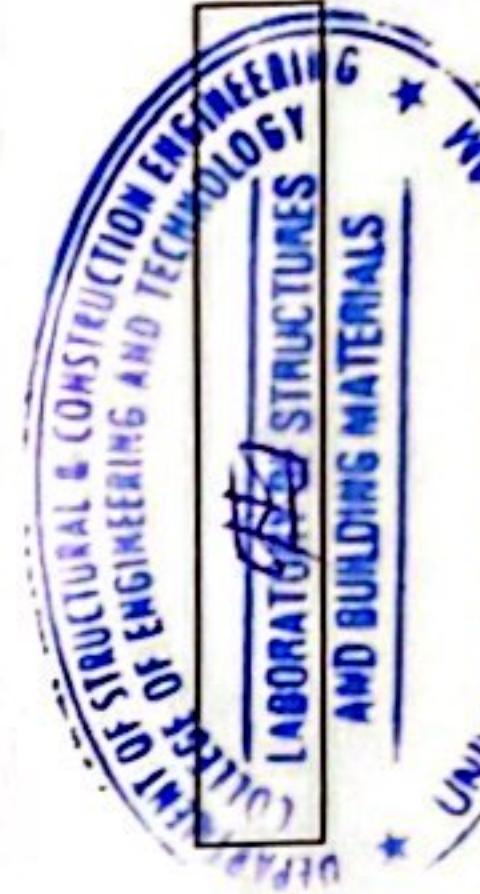
CUBE SPECIFICATION	UPPER ROOF SLAB - BLOCK J		
Number	3PCS	Date of Test	23/7/2024
Nominal Grade	C25	Age	7 days
Date of Cast	16/7/2024		

Cube Marking	Age	Size of Cubes			Weight	Ultimate	Gross	Compressive Strength
		a	b	h				
	days	cm	cm	cm	kg	kN	Kg/dm ³	N/mm ²
UPPER ROOF SLAB - BLOCK J	7	15.0	15.0	15.0	8.555	415.0	2.53	18.4
	7	15.0	15.0	15.0	8.560	422.0	2.54	18.8
	7	15.0	15.0	15.0	8.475	418.4	2.51	18.6
						Average Compressive strength N/mm ²		18.6

TESTED BY (NAME) /SMAIL YAHYA

APPROVED BY
DATE 23/7/2024

SIGNATURE



Note: The results are valid for the sample received on the above dates submitted by the named client sampling. The concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp.



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DEPARTMENT OF STRUCTURES & CONSTR ENG
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STRUCTURES AND BUILDING MATERIALS LAB

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E-Mail: head_sce@udsmt.ac.tz

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CLIENT:

NHC

PROJECT:
CONSTRUCTION OF SAMIA HOUSING SCHEME - KAPEWE PROJECT
NO. 709, KAPEWE KINONDONI MUNICIPALITY - DAR ES SALAAM

CUBE SPECIFICATION

UPPER ROOF SLAB - BLOCK J

3PCS

Size

Number

C25

Date of Test

13/8/2024

Nominal Grade

16/7/2024

Date of Cast

Age

28

days

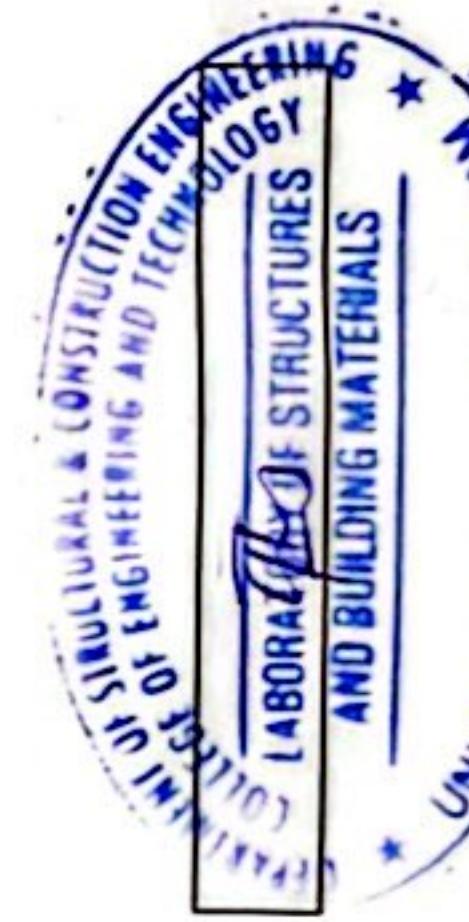
Cube Marking	Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength N/mm ²
		a	b	h				
	days	cm	cm	cm	kg	kN	kg/dm ³	N/mm ²
UPPER ROOF SLAB - BLOCK J	28	15.0	15.0	15.0	8.750	645.0	2.59	28.7
	28	15.0	15.0	15.0	8.694	688.0	2.58	30.6
	28	15.0	15.0	15.0	8.712	628.0	2.58	27.9
Average Compressive strength N/mm ²							29.1	

TESTED BY (NAME)

ISMAIL YAHYA

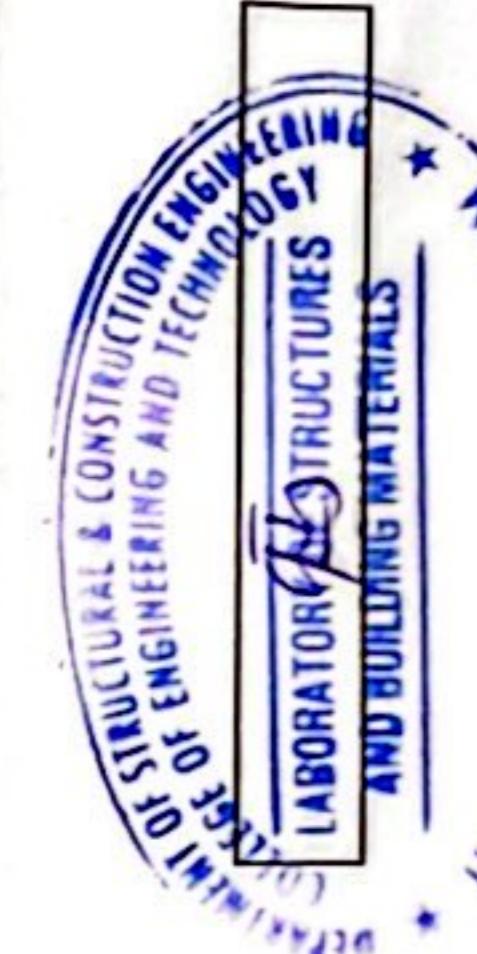
APPROVED BY

Signature

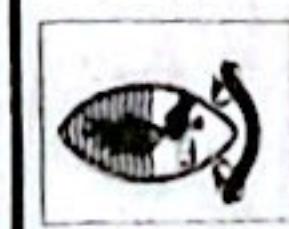
DATE 

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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES							
CLIENT:	NHC	PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT NO. 709, KAWE KINONDONI MUNICIPALITY - DAR ES SALAAM				
CUBE SPECIFICATION	UPPER ROOF SLAB - BLOCK D 3PCS	Size	15 cm				
Number	C25	Date of Test	24/7/2024				
Nominal Grade	17/7/2024	Age	7 days				
Date of Cast							
Cube Marking	Age days	Size of Cubes		Weight kg	Ultimate Load kN	Gross Density kg/dm ³	Compressive Strength N/mm ²
		a cm	b cm				
UPPER ROOF SLAB - BLOCK D	7	15.0	15.0	15.0	8.345	475.0	2.47
	7	15.0	15.0	15.0	8.400	454.0	2.49
	7	15.0	15.0	15.0	8.359	440.0	2.48
							Average Compressive strength N/mm ² 20.3
TESTED BY (NAME)	ISMAIL YAHYA		APPROVED BY	SIGNATURE			
DATE	24/7/2024						



Note: The results are valid for the sample received on the above dates submitted by the named client. Sampling of the concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp

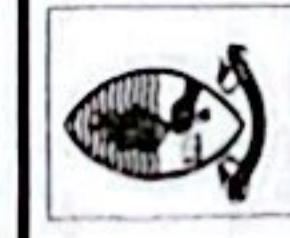


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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES							
CLIENT:	NHC						
PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT NO. 709, KAWE KINONDONI MUNICIPALITY - DAR ES SALAAM						
CUBE SPECIFICATION	Size <input type="text" value="15 cm"/>						
Number	<input type="text" value="3PCS"/>						
Nominal Grade	<input type="text" value="C25"/>						
Date of Cast	<input type="text" value="17/7/2024"/>						
Date of Test	<input type="text" value="14/8/2024"/> Age <input type="text" value="28"/> days						
Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength
Cube Marking	a days	b cm	h cm	kg	kN	Kg/dm ³	N/mm ²
UPPER ROOF SLAB - BLOCK D	28	15.0	15.0	8.460	670.0	2.51	29.8
	28	15.0	15.0	8.590	658.6	2.55	29.3
	28	15.0	15.0	8.621	644.2	2.55	28.6
	<i>Average Compressive strength N/mm²</i>						29.2
TESTED BY (NAME)	<input type="text" value="ISMAIL YAHYA"/>						
DATE	<input type="text" value="14/8/2024"/>						
APPROVED BY	<input type="text" value="SIGNATURE"/>						



Note: The results are valid for the sample received on the above dates submitted by the named Laboratory and the results are not valid if does not have an official laboratory stamp



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E-Mail: head_sce@udsmt.ac.tz

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CLIENT:

NHC

PROJECT:

CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT
NO. 709, KAWE KINONDONI MUNICIPALITY - DARES SALAAM

CUBE SPECIFICATION

UPPER ROOF SLAB - BLOCK C

Number

3PCS

Date of Cast

22/7/2024

Size

Age

29/7/2024

days

Nominal Grade

C25

Date of Test

29/7/2024

days

Cube Marking	Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength
		a	b	h				
	days	cm	cm	cm	kg	kN	Kg/dm ³	N/mm ²
UPPER ROOF SLAB - BLOCK C	7	15.0	15.0	15.0	8.415	447.0	2.49	19.9
	7	15.0	15.0	15.0	8.524	451.2	2.53	20.1
	7	15.0	15.0	15.0	8.467	438.6	2.51	19.5
<i>Average Compressive strength N/mm²</i>								19.8

TESTED BY (NAME)

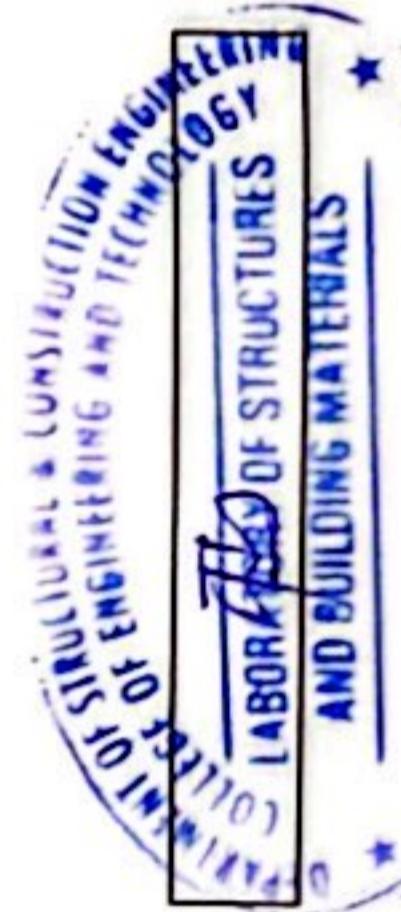
ISMAIL YAHYA

APPROVED BY

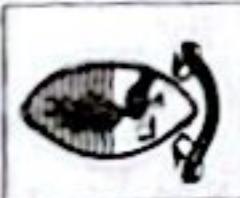
Signature

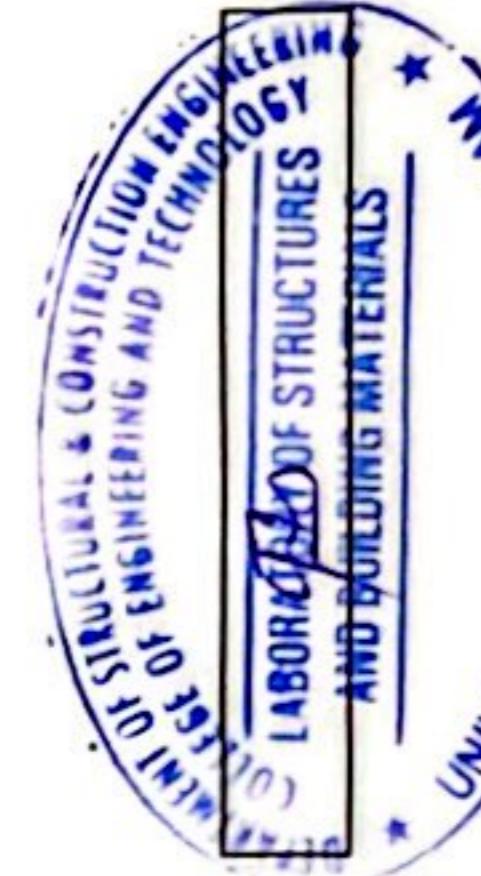
DATE

29/7/2024



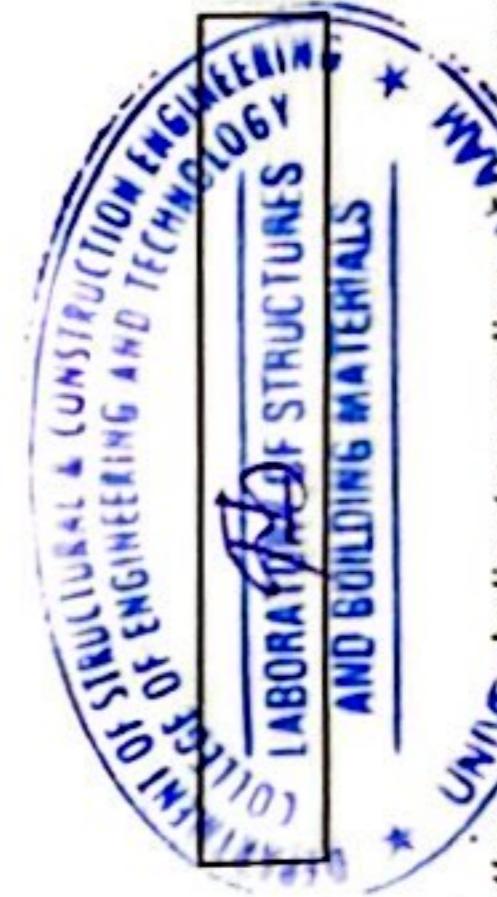
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CLIENT: <input type="text" value="NHC"/>		PROJECT: <input type="text" value="CONSTRUCTION OF SAMIA HOUSING SCHEME - KAPEWE PROJECT NO. 709, KAPEWE KINONDONI MUNICIPALITY - DAR ES SALAAM"/>																																																	
CUBE SPECIFICATION <input type="text" value="UPPER ROOF SLAB - BLOCK C"/> <input type="text" value="3PCS"/> <input type="text" value="C25"/> <input type="text" value="22/7/2024"/>		Size: <input type="text" value="15 cm"/> Date of Test: <input type="text" value="19/8/2024"/> Age: <input type="text" value="28"/> days Date of Cast: <input type="text" value="22/7/2024"/>																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Cube Marking</th> <th rowspan="2">Age days</th> <th colspan="3">Size of Cubes</th> <th rowspan="2">Weight</th> <th rowspan="2">Ultimate Load</th> <th rowspan="2">Gross Density</th> <th rowspan="2">Compressive Strength N/mm²</th> </tr> <tr> <th>a cm</th> <th>b cm</th> <th>h cm</th> </tr> </thead> <tbody> <tr> <td>UPPER ROOF SLAB - BLOCK C</td> <td>28</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>8.645</td> <td>625.0</td> <td>2.56</td> <td>27.8</td> </tr> <tr> <td></td> <td>28</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>8.550</td> <td>644.0</td> <td>2.53</td> <td>28.6</td> </tr> <tr> <td></td> <td>28</td> <td>15.0</td> <td>15.0</td> <td>15.0</td> <td>8.477</td> <td>632.0</td> <td>2.51</td> <td>28.1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Average Compressive strength N/mm²</td> <td>28.2</td> </tr> </tbody> </table>				Cube Marking	Age days	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength N/mm²	a cm	b cm	h cm	UPPER ROOF SLAB - BLOCK C	28	15.0	15.0	15.0	8.645	625.0	2.56	27.8		28	15.0	15.0	15.0	8.550	644.0	2.53	28.6		28	15.0	15.0	15.0	8.477	632.0	2.51	28.1								Average Compressive strength N/mm²	28.2
Cube Marking	Age days	Size of Cubes				Weight	Ultimate Load	Gross Density					Compressive Strength N/mm²																																						
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TESTED BY (NAME) <input type="text" value="ISMAIL YAHYA"/>		APPROVED BY SIGNATURE <input type="text" value="19/8/2024"/> DATE																																																	

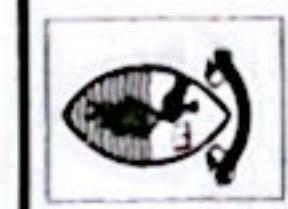


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CUBE SPECIFICATION		Size <input type="text" value="15 cm"/>																																																										
Number	LOWER ROOF LIFT - BLOCK A <input type="text" value="3PCS"/>	Date of Test	<input type="text" value="30/7/2024"/> Age <input type="text" value="7"/> days																																																									
Nominal Grade	<input type="text" value="C25"/>	Date of Cast	<input type="text" value="23/7/2024"/>																																																									
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Cube Marking	Age	Size of Cubes				Weight	Ultimate Load	Gross Density					Compressive Strength																																															
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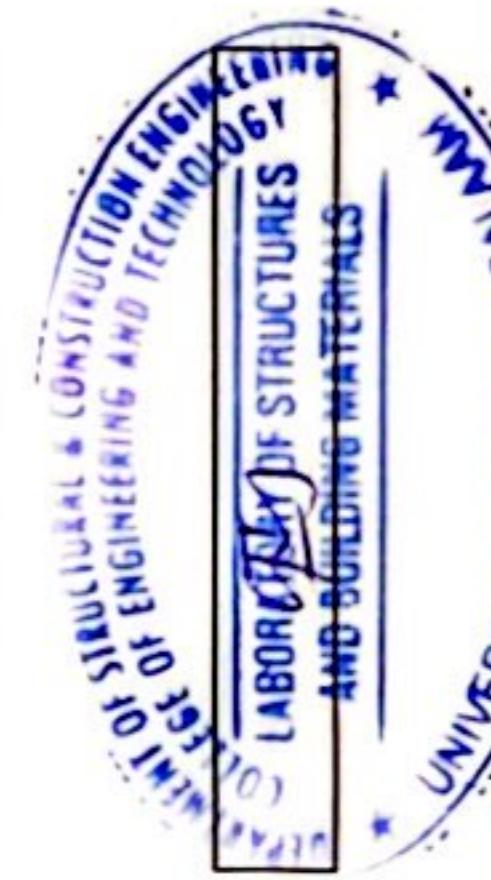


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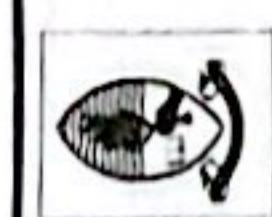


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CLIENT:	NHC							
PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT NO. 709, KAWE KINONDONI MUNICIPALITY - DAR ES SALAAM							
CUBE SPECIFICATION	Size <input type="text" value="15 cm"/>							
Number	<input type="text" value="3PCS"/>							
Nominal Grade	<input type="text" value="C25"/>							
Date of Cast	<input type="text" value="23/7/2024"/>							
Date of Test	<input type="text" value="20/8/2024"/> Age <input type="text" value="28"/> days							
		Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength N/mm ²
Cube Marking	Age	a cm	b cm	h cm	kg	kN	Kg/dm ³	N/mm ²
LOWER ROOF LIFT - BLOCK A	28	15.0	15.0	15.0	8.559	710.0	2.54	31.6
LOWER ROOF LIFT - BLOCK A	28	15.0	15.0	15.0	8.624	685.0	2.56	30.4
	28	15.0	15.0	15.0	8.478	695.4	2.51	30.9
					Average Compressive strength N/mm ²			31.0
TESTED BY (NAME)	<input type="text" value="ISMAIL YAHYA"/>		APPROVED BY			SIGNATURE		
DATE	<input type="text" value="20/8/2024"/>							



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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CLIENT: NHC
PROJECT: CONSTRUCTION OF SAMIA HOUSING SCHEME - KAPEWE PROJECT
NO. 709, KAPEWE KINONDONI MUNICIPALITY - DAR ES SALAAM

CUBE SPECIFICATION

UPPER ROOF SLAB - BLOCK G

3PCS

C25

25/7/2024

Size 15 cm

Nominal Grade

C25

25/7/2024

Date of Cast 25/7/2024

Date of Test 1/8/2024

Age 7 days

Size 15 cm

Weight 8.574 kg

Ultimate Load 444.0 kN

Gross Density 2.54 Kg/dm³

Compressive Strength 19.7 N/mm²

Average Compressive strength 20.5 N/mm²

Cube Marking	Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength
		a	b	h				
	days	cm	cm	cm	kg	kN	Kg/dm ³	N/mm ²
UPPER ROOF SLAB - BLOCK G	7	15.0	15.0	15.0	8.574	444.0	2.54	19.7
	7	15.0	15.0	15.0	8.488	475.0	2.51	21.1
	7	15.0	15.0	15.0	8.499	462.0	2.52	20.5
								20.5

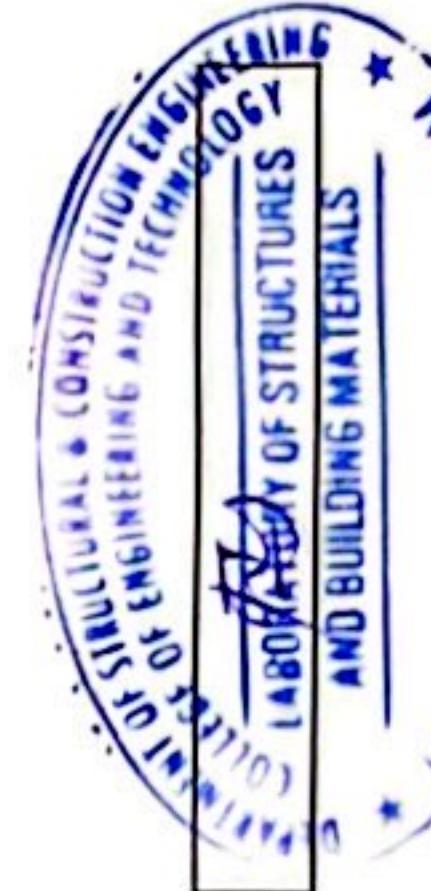
TESTED BY (NAME)

ISMAIL YAHYA

APPROVED BY

SIGNATURE

DATE 1/8/2024



Note: The results are valid for the sample received on the above dates submitted by the name _____ sampling of concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp



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DEPARTMENT OF STRUCTURES & CONSTR ENGG
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STRUCTURES AND BUILDING MATERIALS LAB

Tel: 022-2410500-8 Ezt 2800
E-Mail: head_sce@udsmt.ac.tz

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CLIENT: NHC
PROJECT: CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT
NO. 709, KAWE KINONDONI MUNICIPALITY - DAR ES SALAAM

CUBE SPECIFICATION

UPPER ROOF SLAB - BLOCK G

3PCS

Number

Size 15 cm

Nominal Grade

C25

Date of Test 22/8/2024

Date of Cast

25/7/2024

Age 28

days

Cube Marking	Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength
		a	b	h				
UPPER ROOF SLAB - BLOCK G	days	cm	cm	cm	kg	kN	Kg/dm ³	N/mm ²
	28	15.0	15.0	15.0	8.624	677.0	2.56	30.1
	28	15.0	15.0	15.0	8.598	700.0	2.55	31.1
	28	15.0	15.0	15.0	8.588	695.0	2.54	30.9
								30.7
Average Compressive strength N/mm²								

TESTED BY (NAME)

ISMAIL YAHYA

APPROVED BY

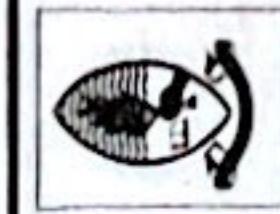
SIGNATURE

DATE

22/8/2024



Note: The results are valid for the sample received on the above dates submitted by the named client sampling of the concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp



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E-Mail: head_sce@udsm.ac.tz

DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES

CLIENT: PROJECT:
CONSTRUCTION OF SAMIA HOUSING SCHEME - KAPEWE PROJECT
NO. 709, KAPEWE KINONDONI MUNICIPALITY - DAR ES SALAAM

CUBE SPECIFICATION

UPPER ROOF SLAB - BLOCK H

3PCS

C25

27/7/2024

Size 15 cm

Date of Test 3/8/2024 Age 7 days

Cube Marking	Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength N/mm ²
		a	b	h				
	days	cm	cm	cm	kg	kN	Kg/dm ³	
7	15.0	15.0	15.0	15.0	8.512	510.0	2.52	22.7
7	15.0	15.0	15.0	15.0	8.600	522.0	2.55	23.2
7	15.0	15.0	15.0	15.0	8.577	518.4	2.54	23.0
<i>Average Compressive strength N/mm²</i>								23.0

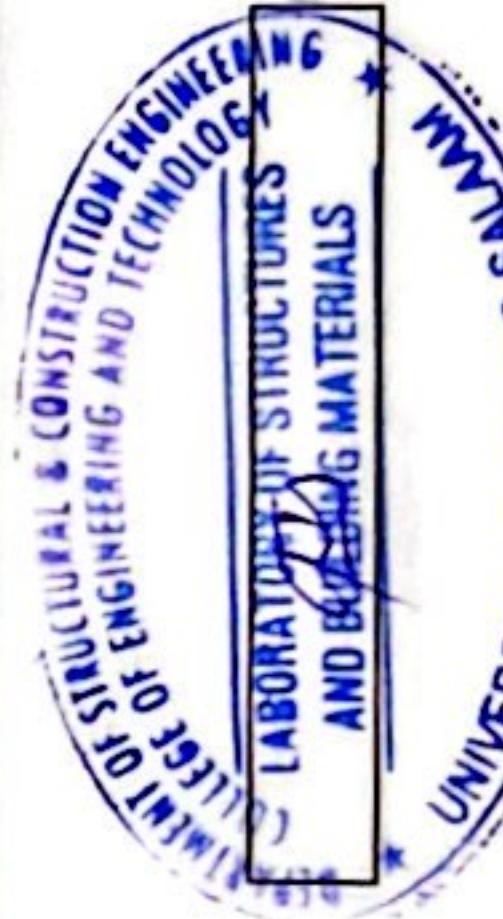
TESTED BY (NAME)

ISMAIL YAHIYA

APPROVED BY

SIGNATURE

DATE 3/8/2024



Note: The results are valid for the sample received on the above dates submitted by the named client sampling of the concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official/laboratory stamp

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DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES	
CLIENT:	NHC
PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAPEWE PROJECT NO. 709, KAPEWE KINONDONI MUNICIPALITY - DAR ES SALAAM

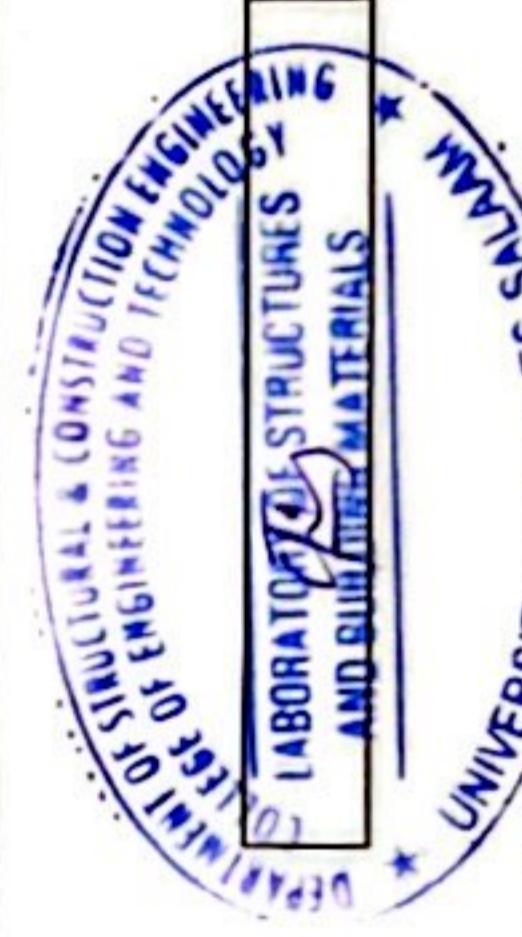
CUBE SPECIFICATION	
Number	3PCS
Nominal Grade	C25
Date of Cast	27/7/2024
Size of Slab - BLOCK H	
Age	24/8/2024
Date of Test	24/8/2024
Size	15 cm
Age	28 days

Cube Marking	Age	Size of Cubes			Weight	Ultimate Load	Gross Density	Compressive Strength
		a	b	h				
	days	cm	cm	cm	kg	kN	Kg/dm ³	N/mm ²
UPPER ROOF SLAB - BLOCK H	28	15.0	15.0	15.0	8.745	711.0	2.59	31.6
	28	15.0	15.0	15.0	8.695	680.0	2.58	30.2
	28	15.0	15.0	15.0	8.775	675.0	2.60	30.0
<i>Average Compressive strength N/mm²</i>								30.6

TESTED BY (NAME) /SMAIL YAHYA

DATE 24/8/2024

APPROVED BY
SIGNATURE

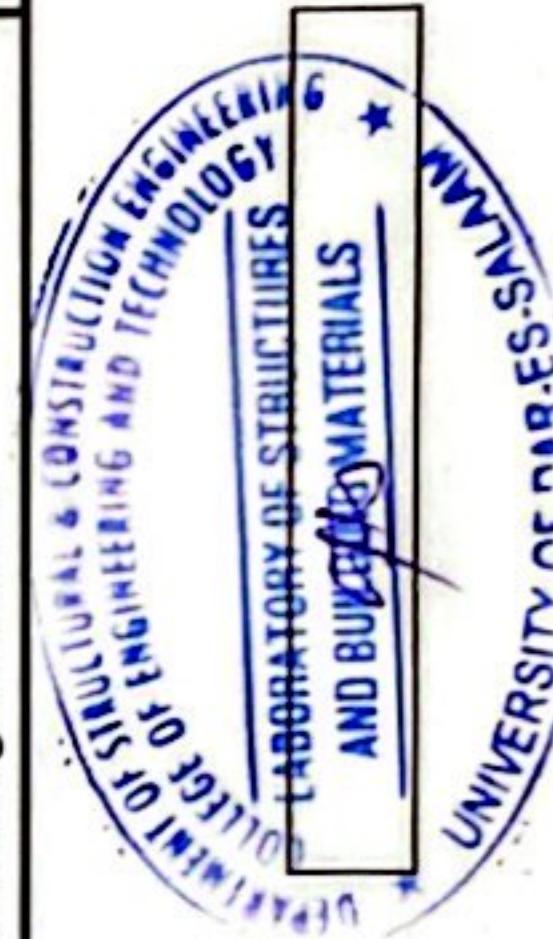


Note: The results are valid for the sample received on the above dates submitted by the named client. Sampling of the concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp

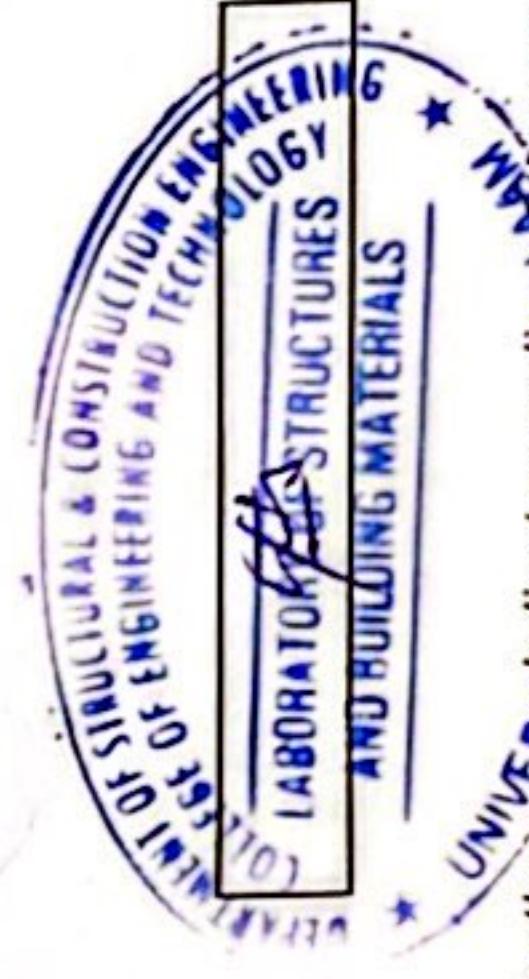


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Tel: 022-2410500-8 Ezt 2800 E-Mail: head_sce@udsml.ac.tz							
DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES							
CLIENT:	NHC						
PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAVE PROJECT NO. 709, KAPE KINONDONI MUNICIPALITY - DAR ES SALAAM						
CUBE SPECIFICATION	Size <input type="text" value="15 cm"/>						
Number	UPPER ROOF SLAB - BLOCK F <input type="text" value="3PCS"/>						
Nominal Grade	<input type="text" value="C25"/>						
Date of Cast	<input type="text" value="28/7/2024"/>						
Date of Test	<input type="text" value="4/8/2024"/> Age <input type="text" value="7"/> days						
Age	Size of Cubes			Weight	Ultimate	Gross	Compressive Strength
days	a cm	b cm	h cm	kg	kN	Kg/dm ³	N/mm ²
7	15.0	15.0	15.0	8.633	488.0	2.56	21.7
7	15.0	15.0	15.0	8.536	495.0	2.53	22.0
7	15.0	15.0	15.0	8.497	502.0	2.52	22.3
				Average Compressive strength N/mm ²	22.0		
TESTED BY (NAME)	<input type="text" value="ISMAIL YAHYA"/>		APPROVED BY	<input type="text"/>		SIGNATURE	<input type="text"/>
DATE	<input type="text" value="4/8/2024"/>						



Note: The results are valid for the sample received on the above dates submitted by the named client sampling of the concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp

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Tel: 022-2410500-8 Ezt 2800 E-Mail: head_sce@udsm.ac.tz								
DETERMINATION OF COMPRESSIVE STRENGTH OF CONCRETE CUBES								
CLIENT:	NHC	PROJECT:	CONSTRUCTION OF SAMIA HOUSING SCHEME - KAWE PROJECT NO. 709, KAWE KINONDONI MUNICIPALITY - DARES SALAAM					
CUBE SPECIFICATION	UPPER ROOF SLAB - BLOCK F	Size <input type="text" value="15 cm"/>						
Number	<input type="text" value="3PCS"/>	Date of Test	<input type="text" value="26/8/2024"/>					
Nominal Grade	<input type="text" value="C25"/>	Age	<input type="text" value="28"/> days					
Date of Cast	<input type="text" value="28/7/2024"/>							
Cube Marking	Age	Size of Cubes		Weight	Ultimate Load	Gross Density	Compressive Strength	
		a cm	b cm					h cm
	days			kg	kN	Kg/dm ³	N/mm ²	
UPPER ROOF SLAB - BLOCK F	28	15.0	15.0	15.0	8.644	721.0	2.56	32.0
	28	15.0	15.0	15.0	8.597	657.0	2.55	29.2
	28	15.0	15.0	15.0	8.578	677.0	2.54	30.1
					Average Compressive strength N/mm ²			30.4
TESTED BY (NAME)	<input type="text" value="ISMAIL YAHYA"/>		APPROVED BY	<input type="text" value=""/>		SIGNATURE		
DATE	<input type="text" value="26/8/2024"/>							

Note: The results are valid for the sample received on the above dates submitted by the named client sampling of the concrete is not the responsibility of the Laboratory and the results are not valid if does not have an official laboratory stamp