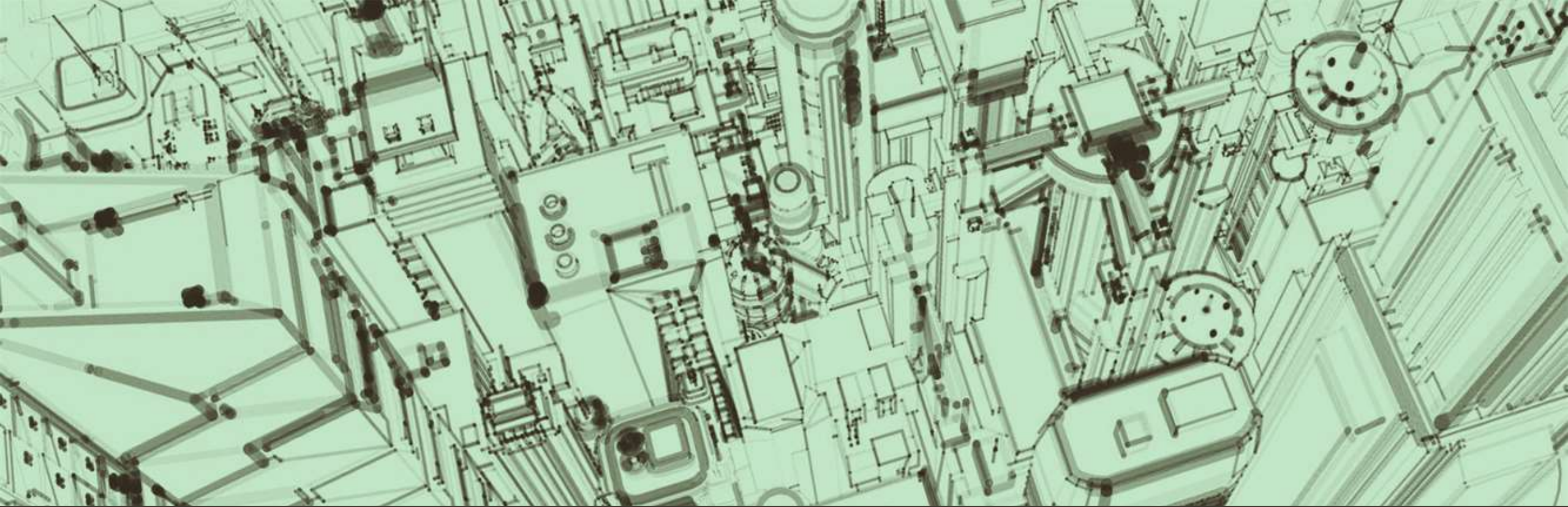




**SLAB**



# Presented by:

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# Visited Sites

Tejkuni Bazar, Farmgate  
Radio Colony, Savar

- Slab On Beam

Library Building, Gulistan Park  
Sheikh r Tek, Mohammadpur,  
Dhaka- 1207

- Flat Plate Slab

Azimpur Graveyard Mosque,  
Azimpur

- Flat Slab

Sher-e-Bangla Agricultural  
University, Agargaon

- Waffle Slab

# WHAT IS SLAB?

- A slab is a broad, flat plate, horizontal with top and bottom surfaces parallel or nearly so.
- It may be directly supported on beams or columns or indirectly on column by using deep panel and column capital.



# Types of Slab

Slab On  
Beam

Flat Slab

Flat Plate  
Slab

Waffle Slab



# **Construction Process of Slab On Beam**



# 1. Shuttering/Formwork



Need to carry the weight of RCC of slab and beam until hardening of concrete

To form a desired shape of beam and slab



## 2. Providing Steel Sheets



To resist falling of water from concrete until hardening



### 3. Maintaining Clear Cover



Clear Cover is needed to protect the reinforcement from corrosion

C.C blocks is used to maintain clear cover



## 4. Reinforcement Placing



The reinforcement are knotted with one another using GI (Galvanized Iron) wire

The reinforcement are placed in two direction



## 5. Concrete Casting



To reduce segregation, concrete was dropped from low height

Casting was done monolithically where the casting of beam and slab are done together



## 6. Compaction



The compaction is done by a vibrator to remove air voids and to make sure concrete has spread uniformly in all direction.

## 7. Levelling



To Provide a smooth surface

Levelling was done by using a thick wooden plate

## 8. Curing



The slab was ponded by water for 28 days

To complete hydration reaction in order to gain strength of concrete



# **Construction Process of Flat Plate Slab**



# 1. Shuttering/Formwork



To form a desired shape of slab

Need to carry the weight of RCC of slab  
until hardening of concrete

## 2. Maintaining Clear Cover



C.C blocks is used to maintain clear cover

Clear Cover is needed to protect the reinforcement from corrosion

### 3. Reinforcement Placing



The reinforcement are placed  
in two direction

The reinforcement are knotted with  
one another using GI (Galvanized  
Iron) wire



## 4. Concrete Casting



Casting was done monolithically where the casting of beam and slab are done together

To reduce segregation, concrete was dropped from low height

## 5. Compaction



The compaction is done by a vibrator to remove air voids and to make sure concrete has spread uniformly in all direction.

## 6. Levelling



To Provide a smooth surface

Levelling was done by using a thick wooden plate

## 7. Curing



The slab was ponded by water for 28 days

To complete hydration reaction in order to gain strength of concrete



# **Construction Process of Flat Slab**



## 1. Shuttering/Formwork



To form a desired shape of slab

Need to carry the weight of RCC of slab until hardening of concrete

## 2. Providing steel sheets



To resist falling of water from concrete until hardening

### 3. Maintaining Clear Cover



C.C blocks is used to maintain clear cover

Clear Cover is needed to protect the reinforcement from corrosion

## 4. Reinforcement Placing



The reinforcement are knotted with one another using GI (Galvanized Iron) wire

The reinforcement are placed in two direction



## 5. Concrete Casting



To reduce segregation, concrete was dropped from low height

Casting was done monolithically where the casting of beam and slab are done together



## 6. Compaction



The compaction is done by a vibrator to remove air voids and to make sure concrete has spread uniformly in all direction.

## 7. Levelling



To Provide a smooth surface

Levelling was done by using a thick wooden plate

## 8. Curing



The slab was ponded by water for 28 days

To complete hydration reaction in order to gain strength of concrete



# **Construction Process of Waffle Slab**



# 1. Shuttering/Formwork

To form a desired shape of beam and slab



Need to carry the weight of RCC of slab and beam until hardening of concrete



## 2. Providing steel sheets



To resist falling of water from concrete until hardening



### 3. Maintaining Clear Cover



C.C blocks is used to maintain clear cover

Clear Cover is needed to protect the reinforcement from corrosion

## 4. Reinforcement Placing



The reinforcement are placed in two direction

The reinforcement are knotted with one another using GI (Galvanized Iron) wire



## 5. Concrete Casting



To reduce segregation, concrete was dropped from low height

Casting was done monolithically where the casting of beam and slab are done together



## 6. Compaction



The compaction is done by a vibrator to remove air voids and to make sure concrete has spread uniformly in all direction.

## 6. Levelling



To Provide a smooth surface

Levelling was done by using a thick wooden plate



## 8. Curing



The slab was ponded by water  
for 28 days

To complete hydration reaction  
in order to gain strength of  
concrete



Thank you!