

# Epyllion Knitwears Limited (Madanpur Project)

Village: Madanpur, P.O: Madanpur, Bondor, Narayangonj, Post code- 1411.  
(23.69205, 90.54470)  
26<sup>th</sup> September 2021



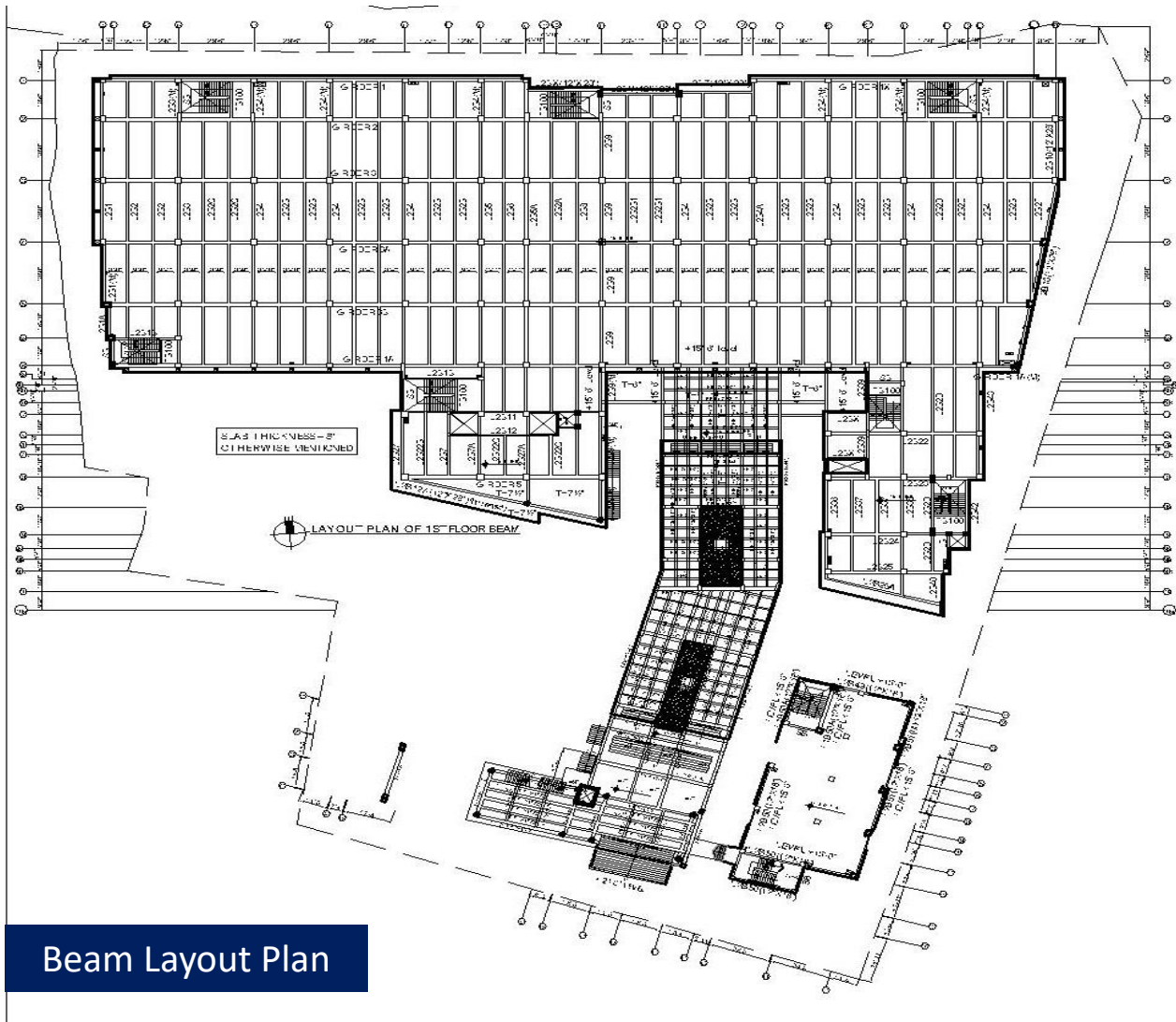
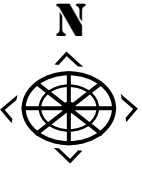
# Buildings Information

1. Production Building (Unit- 1A) (G+5)
2. Childcare Building (Unit- 1B) (G+2)
3. Utility Building (Unit- 1C) (G+2)

# Observations

# Torsional effect on the building

## Observations



Beam Layout Plan

The building is geometrically irregular shaped. Torsional irregularity check was not included in the design report. Due to lateral forces, the building might be affected for torsional irregularity. Building engineer is required to check the torsional effect of the building for lateral forces.

# Inadequate anchorage of the non-structural elements



Over hanged non-structural elements



Over hanged non-structural elements observed throughout the production building. Building engineer is required to check whether the non-structural elements are adequately braced & anchored for the seismic movement.



# Localized loading on the roof slab



10,000-liter water tanks with 1.3 m buildup

Water tank and cooling towers with additional build up observed on the roof slab. Building engineer is required to check the flexure capacity of the slab.



Cooling tower with build ups

# Water ponding on the roof

**Observations: Unit- 1C (Utility Building)**



Water ponding observed on the roof. Building engineer is required to improve the roof drainage system.



Water ponding on the roof

# Problems Observed

01: Torsional effect on the building.

02: Inadequate bracing of the non-structural elements.

03: Localized loading on the roof slab.

04: Water ponding on the roof.

# Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Torsional effect on the building.	Building engineer is required to check the torsional effect of the building for lateral forces.	6-weeks
02	Torsional effect on the building.	Carryout remedial works where necessary.	6-months
03	Inadequate bracing of the non-structural elements.	Building engineer is required to check whether the non-structural elements are adequately braced & anchored for the seismic movement.	6-weeks
04	Inadequate bracing of the non-structural elements.	Provide adequate bracing & anchoring where required.	6-months
05	Localized loading on the roof slab.	Building engineer is required to check the flexural capacity of slab due to heavy loading.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Localized loading on the roof slab.	Carryout remedial works where necessary.	6-months
07	Water ponding on the roof.	Improve roof drainage system to prevent water ponding.	6-weeks