

# Life Textile Pvt. Ltd (Extension)

BSCIC Industrial Estate, Konabari, Gazipur  
(24.009262N, 90.322270E)

18-Sep-2023



# Building Information

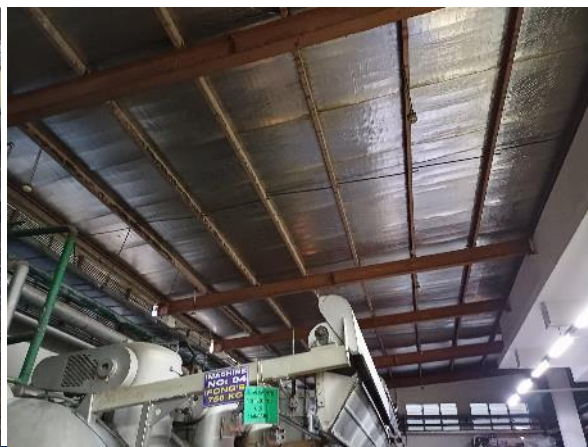
Knitting Building is five storied (G+4).

Printing Building is six storied (G+5).

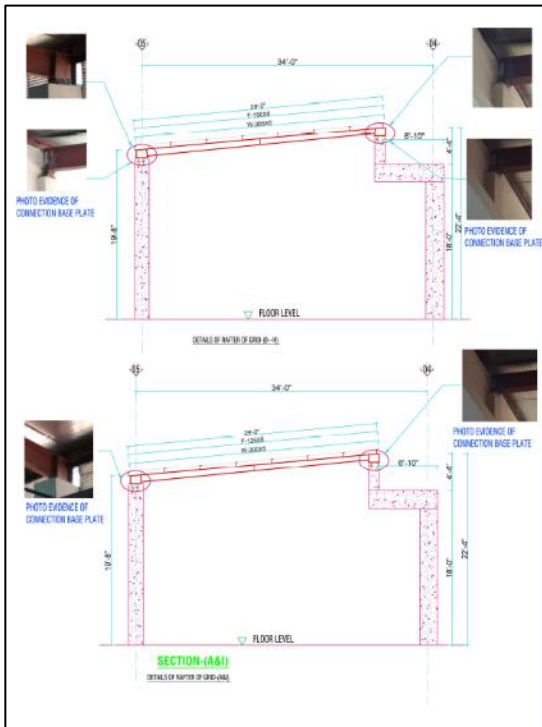
Generator Building is partially three storied (G+2).

# Observations

## **Lack of lateral Stability of the steel shed**



Ground floor shed of knitting building



Sectional elevation of shed

The steel shed is supported by the RC column of the knitting building. The connection between RC column & steel rafter is not clear. The shed does not have lateral load resisting system along the long direction. Factory engineer is required to perform Engineering Assessment (EA) to check the lateral stability & connection adequacy of the shed and prepare as-built drawing with connection details.

**Design report needs to be prepared**

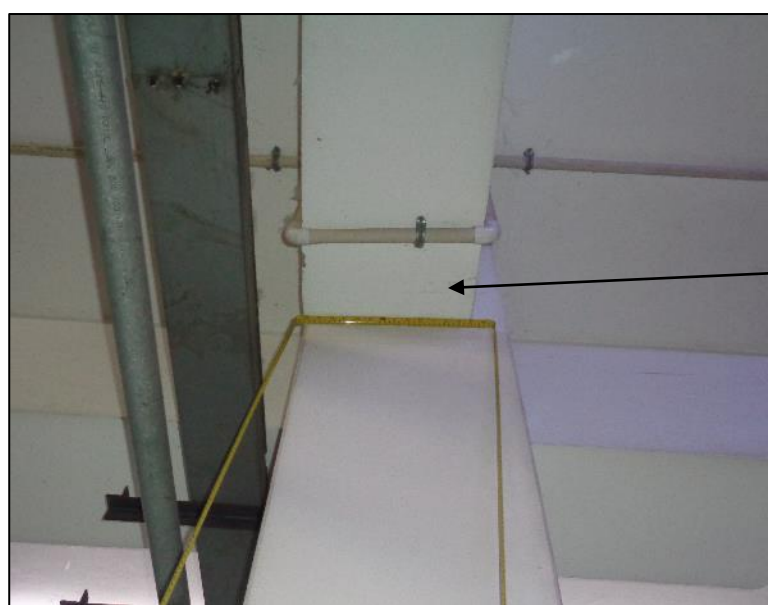


Knitting Building

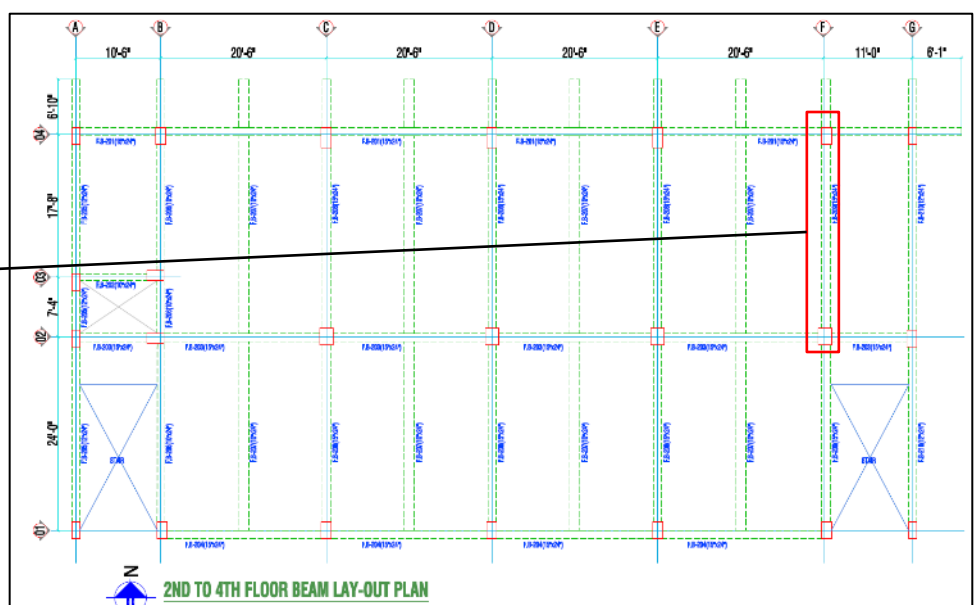
As per BNBC (part-6), every building or structure designed shall have its design documents prepared in accordance with the provision of Section 1.9.1. The design document shall include a design report, and a set of structural drawings, which shall be prepared in compliance with section 1.9.1.1 & section 1.9.1.2 of BNBC (part-6).

At the time of inspection, no design report was available. Building engineer is required to prepare a set of design documents in compliance with BNBC.

# Mismatch in as-built drawings



Beam width 300 mm onsite



Beam Layout plan: beam width shown 375 mm

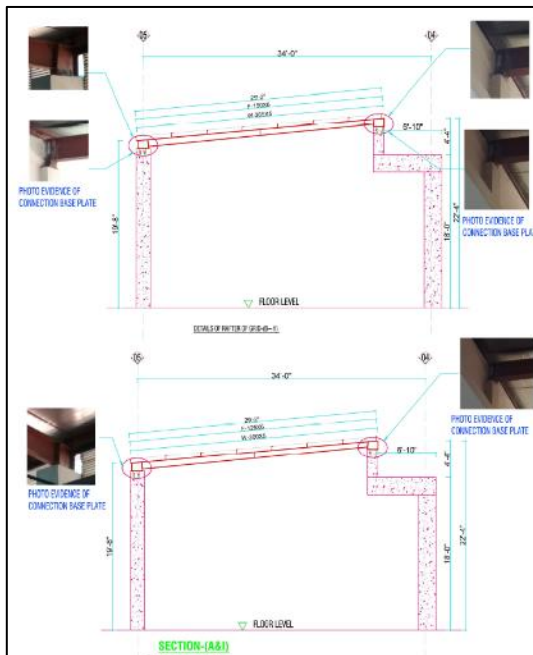


False slab in toilet zone area

Size of the beam width was found 300 mm instead of 375 mm.

False slab was found in toilet zone area which was not shown in as-built architectural drawing.

Building engineer is required to survey the whole structure and update the as-built drawings and perform Engineering Assessment (EA)



Fame in drawing



Connection of rafter with RC column

Connection details has not been provided in as-built drawing.

Building engineer is required to survey the whole structure and update the as-built drawings with structural connection details.



Additional slab at the roof of the stair top

No details was found in as-built drawings for the additional slab.

**Design report needs to be prepared**



Printing Building

As per BNBC (part-6), every building or structure designed shall have its design documents prepared in accordance with the provision of Section 1.9.1. The design document shall include a design report, and a set of structural drawings, which shall be prepared in compliance with section 1.9.1.1 & section 1.9.1.2 of BNBC (part-6).

At the time of inspection, no design report was available. Building engineer is required to prepare a set of design documents in compliance with BNBC.

## **Mismatch in as-built drawings**



Fire pump room below ground level

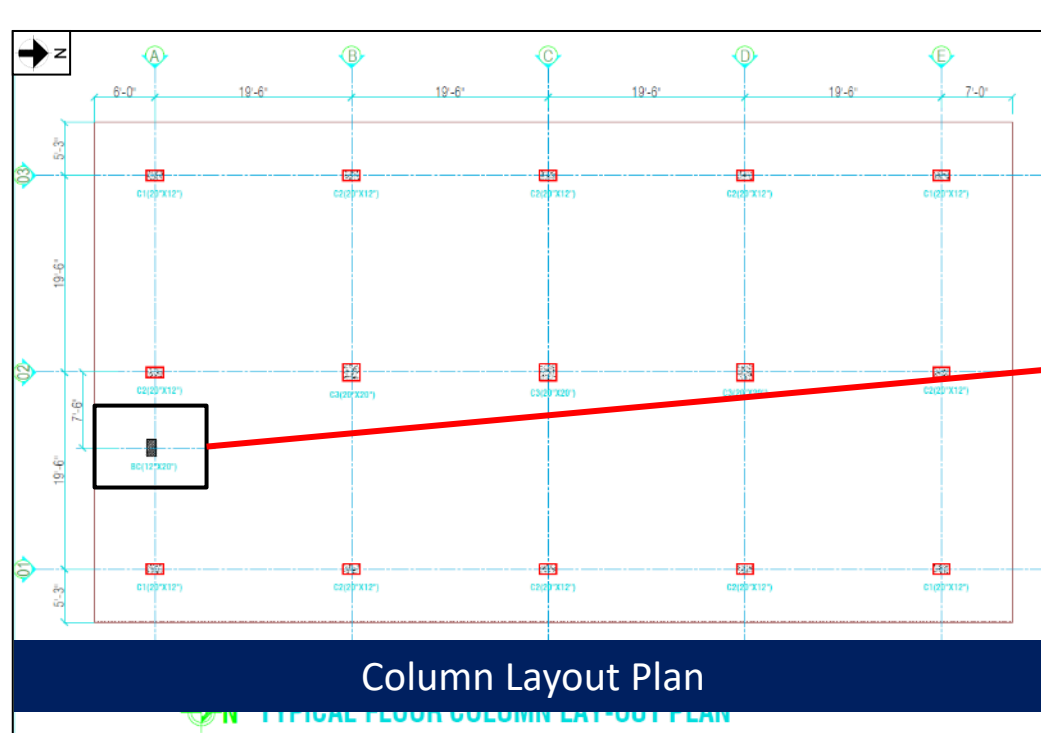
Fire pump room construed below ground floor level. But no structural details has been provided in as-built structural drawing.



False slab in toilet zone area

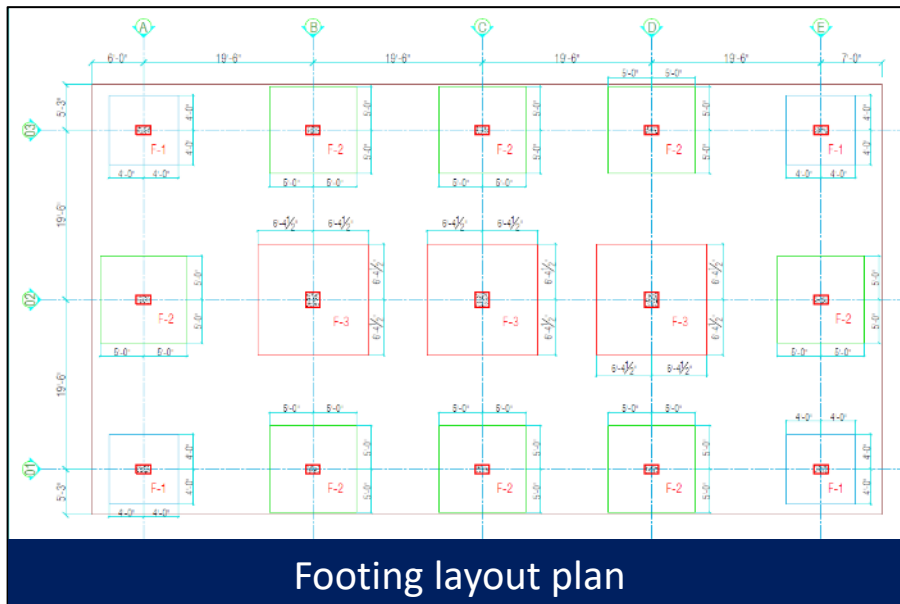
False slab was not shown in as-built drawing.

Building engineer is required to survey the whole structure and update the as-built drawings and perform Engineering Assessment (EA).



Stone chips Aggregate in column

Stone chips aggregate found in column instead of brick chips aggregate.



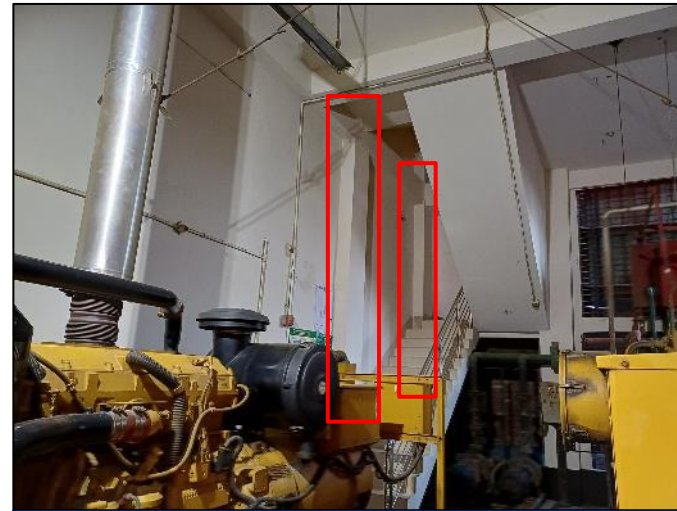
The foundation position of the lift core has not been shown in foundation layout plan.

Building engineer is required to survey the whole structure and update the as-built drawings.

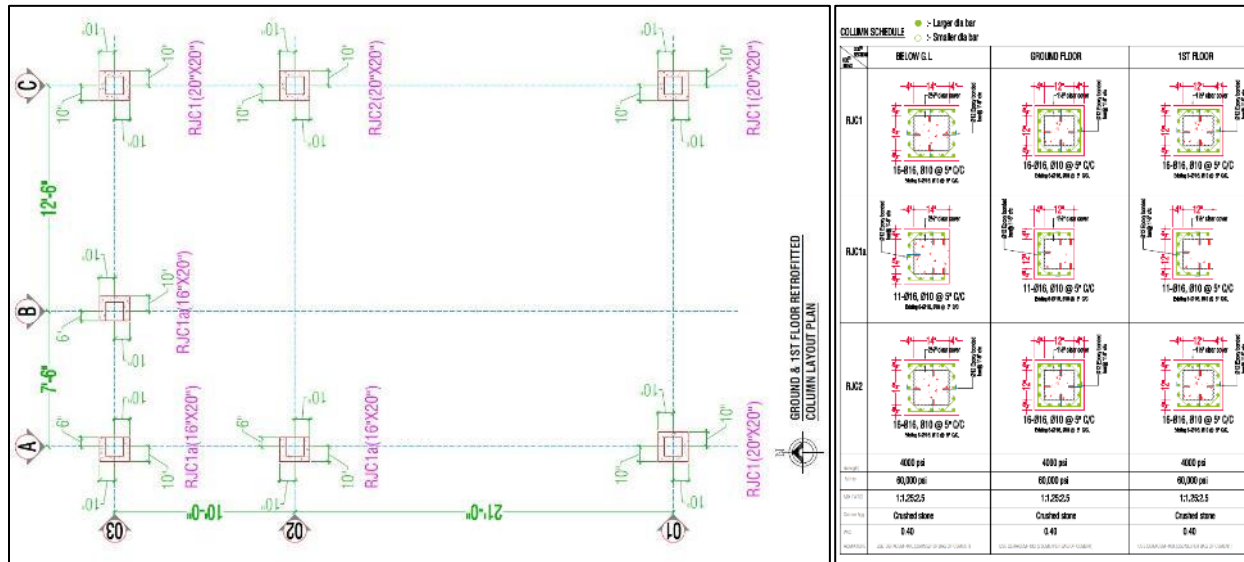
**Retrofitting documents needs to be reviewed**



Generator Building



Retrofitted column



Retrofitting column layout and schedule

Column has been retrofitted for the generator building. Building engineer is required to submit the Detail Engineering Assessment (DEA) documents to the RSC for the further review to justify the capacity of foundation, column and beam & slab against the lateral & vertical loading.

## Observations: Generator Building

# Priority Actions

# Problems Observed

## **Knitting Building:**

Item 01: Lack of lateral Stability of the steel shed.

Item 02: Design report needs to be prepared.

Item 03: Mismatch in as-built drawings.

## **Printing Building:**

Item 04: Design report needs to be prepared.

Item 05: Mismatch in as-built drawings.

## **Generator Building:**

Item 06: Retrofitting documents needs to be reviewed.

| Item No. | Observation                                                     | Recommended Action Plan                                                                                                  | Recommended Timeline |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------|
| 01       | Lack of lateral Stability of the steel shed (Knitting Building) | Building engineer is required to produce full set of as-built drawing including the actual connection details.           | 6-weeks              |
| 02       | Lack of lateral Stability of the steel shed (Knitting Building) | Factory engineer is required to perform Engineering Assessment (EA) to check the lateral stability & connection adequacy | 6-weeks              |
| 03       | Lack of lateral Stability of the steel shed (Knitting Building) | Implement remedial work if required.                                                                                     | 6-months             |
| 04       | Design report needs to be prepared (Knitting Building)          | Building engineer is required to prepare a design documents in compliance with section 1.9.1 of BNBC (part-6).           | 6-weeks              |
| 05       | Design report needs to be prepared (Knitting Building)          | Implement remedial work if required.                                                                                     | 6-months             |

| Item No. | Observation                                            | Recommended Action Plan                                                                                                                | Recommended Timeline |
|----------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 06       | Mismatch in as-built drawings (Knitting Building)      | Building engineer is required to produce full set of as-built drawing reflecting the as constructed condition in compliance with BNBC. | 6-weeks              |
| 07       | Mismatch in as-built drawings (Knitting Building)      | Building engineer is required to prepare Engineering Assessment (EA) in compliance with BNBC.                                          | 6-weeks              |
| 08       | Mismatch in as-built drawings (Knitting Building)      | Implement remedial work if required.                                                                                                   | 6-months             |
| 09       | Design report needs to be prepared (Printing Building) | Building engineer is required to prepare a design documents in compliance with section 1.9.1 of BNBC (part-6).                         | 6-weeks              |
| 10       | Design report needs to be prepared (Printing Building) | Implement remedial work if required.                                                                                                   | 6-months             |

| Item No. | Observation                                                      | Recommended Action Plan                                                                                                                                                                                 | Recommended Timeline |
|----------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 11       | Mismatch in as-built drawings (Printing Building)                | Building engineer is required to produce full set of as-built drawing reflecting the as constructed condition in compliance with BNBC.                                                                  | 6-weeks              |
| 12       | Mismatch in as-built drawings (Printing Building)                | Building engineer is required to prepare Engineering Assessment (EA) in compliance with BNBC.                                                                                                           | 6-weeks              |
| 13       | Mismatch in as-built drawings (Printing Building)                | Implement remedial work if required.                                                                                                                                                                    | 6-months             |
| 14       | Retrofitting documents needs to be reviewed (Generator Building) | Building engineer is required to submit the Detail Engineering Assessment (DEA) documents to RSC for the further review to justify the capacity of column and foundation for lateral & gravity loading. | 6-weeks              |
| 15       | Retrofitting documents needs to be reviewed (Generator Building) | Implement remedial work if required.                                                                                                                                                                    | 6-months             |