

MU Fashion Ltd.

South Salimpur, Jafarabad-4317, Fouzderhat I/A,
Sitakunda, Chattogram, Bangladesh

(22.381451, 91.764042)

09 June 2022



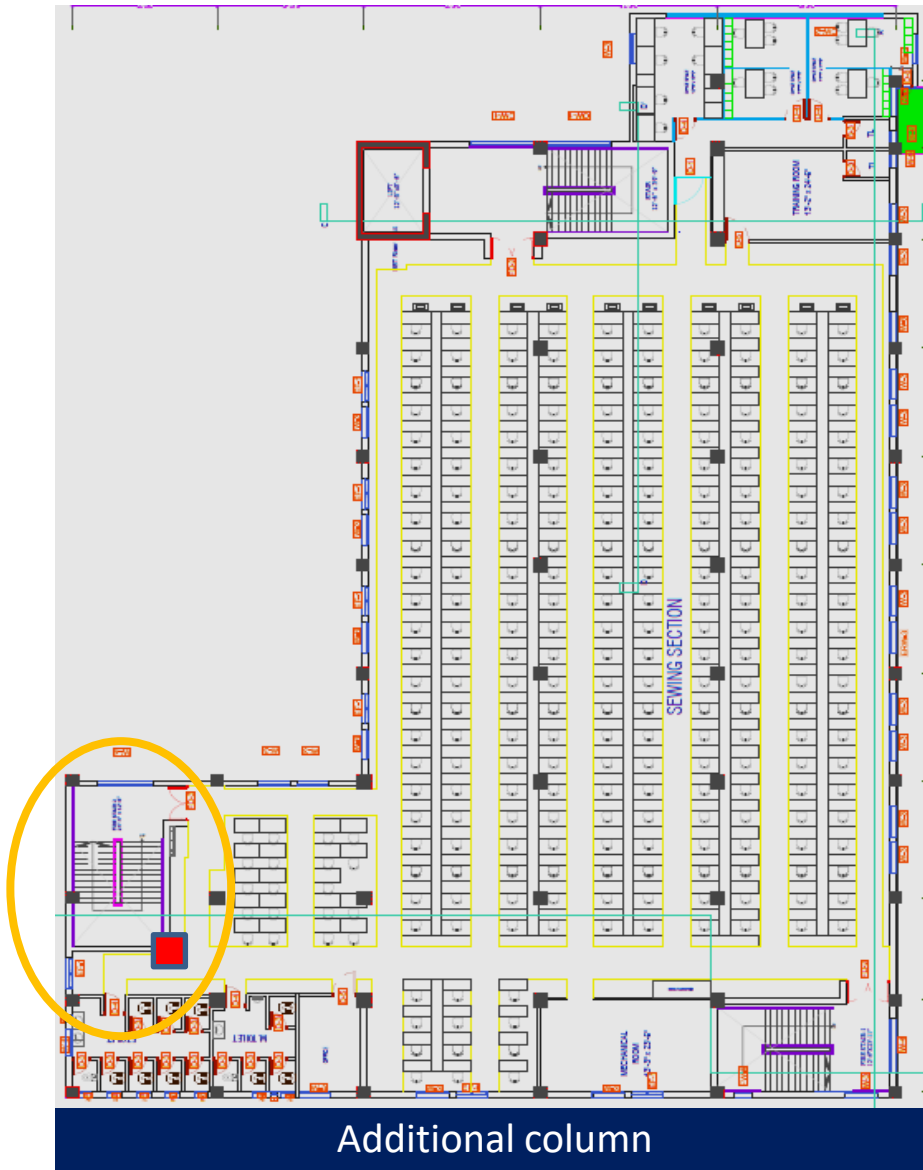
Buildings Information

1. Production Building (B+G+5+Roof Shed); Proposed (B+G+7)
2. Sub-Station Building (single storied)
3. Generator Building (single storied)
4. Security & Fire Command Station Building (single storied)

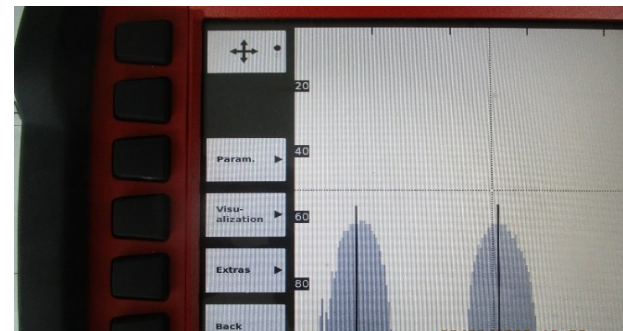
Observations

Vertical load path of the additional column

A load bearing RC column found in the marked staircase. No foundation system and load path observed of the column. Building engineer is required to check the vertical load path of the column.



RC column in stair-2 (250 mm X 250 mm)



2 no's re-bar found in each side

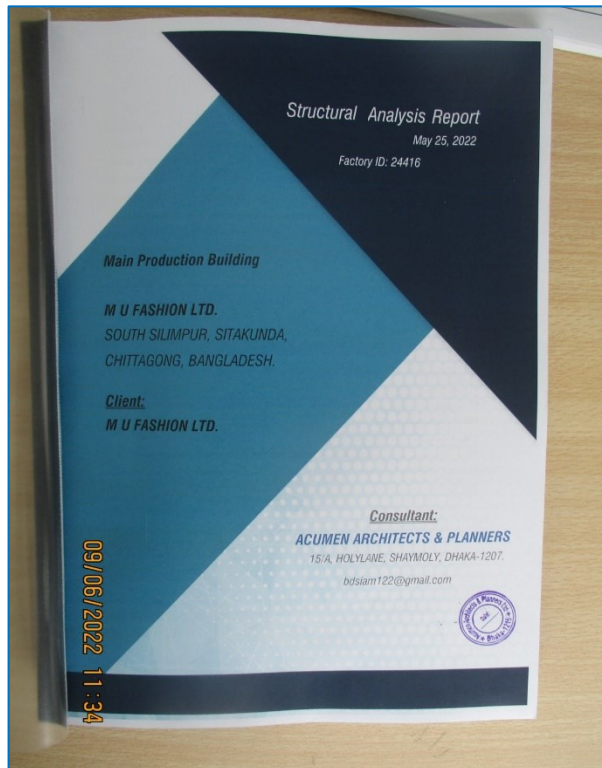
Information missing in the design report

Observation: Production Building

As per BNBC 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 and section 1.9.1.2 as per BNBC.



Production Building



Design report

A Design Report was provided for the production Building at the time of inspection which was prepared based on software analysis. But no software analysis (FEA) model was provided to review the Design report. Moreover, capacity calculation of pre-cast pile as per BNBC were not provided in the design report.

Lack of lateral stability of the roof shed

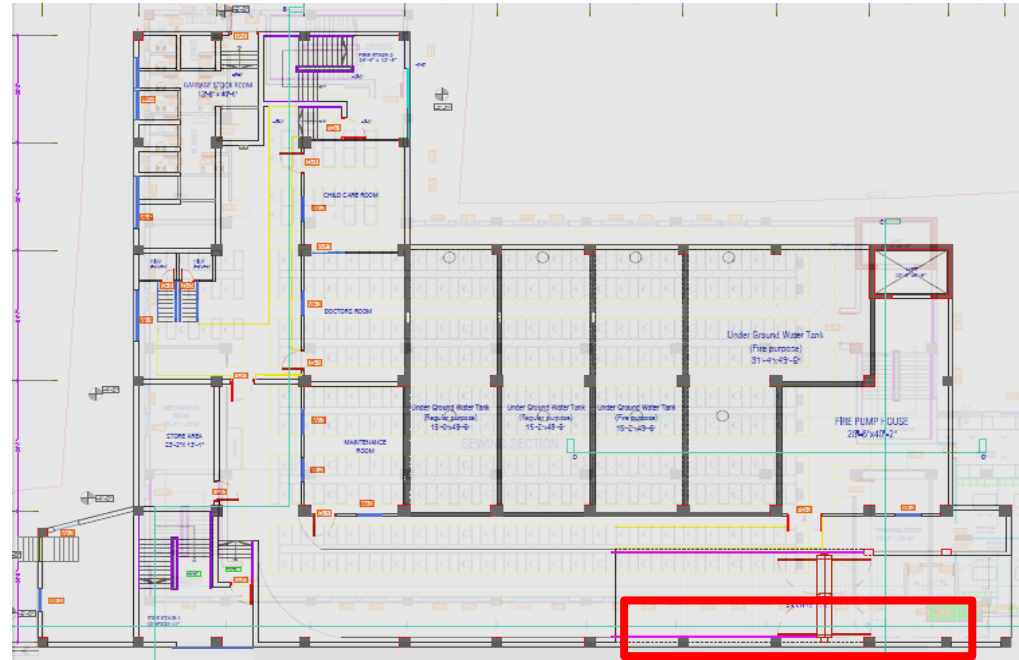


Poor connection details observed, truss welded with column re-bar. Apparently inadequate truss member and lack of lateral stability system (no bracing and compression strut). Building engineer to check the connection & member adequacy and stability of the lightweight roof structure against lateral loading.

Columns susceptible to impact loading



Columns at ramp area (semi-basement) are susceptible to impact loading from vehicles.



Semi-basement Floor Layout Plan

Lack of information in as-built drawings

Observation: Sub-Station Building & Generator Building



Sub-Station Building



Generator Building

Sub-Station Building and Generator Building are single storied RCC building. Slab layout & details were missing in as built structural drawing. Factory is required to prepare accurate as built structural drawings.

Observations: Sub-Station Building & Generator Building

Problems Observed

Production Building:

Item 1: Vertical load path of the additional column.

Item 2: Information missing in the design report.

Item 3: Lack of lateral stability of the roof shed.

Item 4: Columns susceptible to impact loading.

Sub-Station Building & Generator Building :

Item 5: Lack of information in as-built drawings.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Vertical load path of the additional column (Production Building)	Building engineer is required to check the adequacy and vertical load path of the column.	6-weeks
02	Vertical load path of the additional column (Production Building)	Verify the foundation system of the additional column.	6-weeks
03	Vertical load path of the additional column (Production Building)	Carry out remedial works if required.	6-months
04	Information missing in the design report (Production Building)	Building engineer is required to prepare the design documents including a design report, and a set of structural drawings in compliance with section 1.9.1.1 and section 1.9.1.2 as per BNBC part 6 and submit to RSC for review.	6-weeks
05	Information missing in the design report (Production Building)	Carry out remedial works (if any) after reviewed by RSC.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Apparently non-engineered shed. (Production Building)	Building engineer is required to check the connection adequacy, member adequacy and lateral stability of the roof shed. Or replace the shed with an engineered structure.	6-weeks
07	Apparently non-engineered shed. (Production Building)	Carry out remedial works where necessary.	6-months
08	Columns susceptible to impact loading (Production Building)	Building engineer is required to provide vehicle impact protection to the susceptible columns.	6-weeks
09	Lack of information in as-built drawings (Sub-Station Building & Generator Building)	Building engineer is survey the whole structure and prepare accurate as-built drawings.	6-weeks