Tanzila Textile Ltd. (Extension)

Baroypara, Ashulia, Savar-1345, Dhaka, Bangladesh.

(24.018821, 90.243362)

22 January 2024

1. Building Information

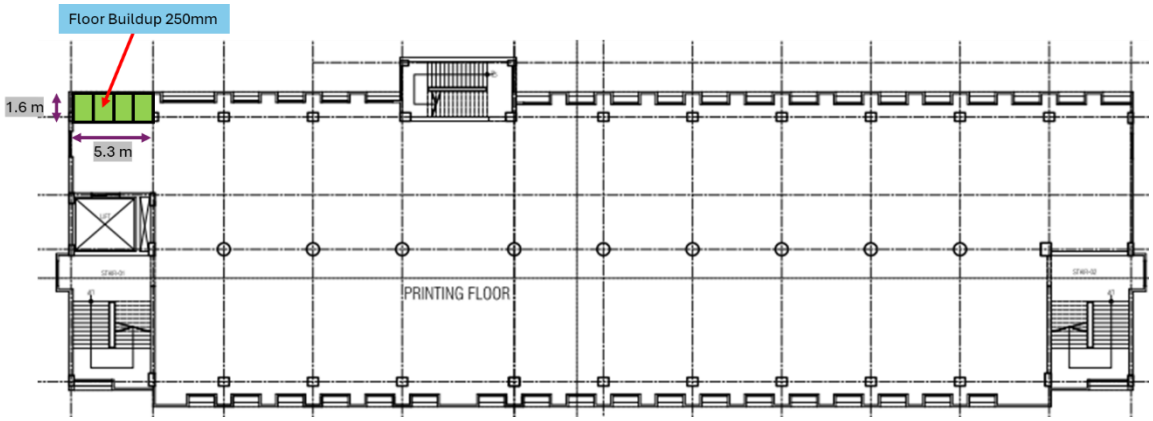
Building-5 (Store Building): Six storied (G+5) reinforced concrete (RC) building.

Knitting Shed: Single storied prefabricated steel shed.

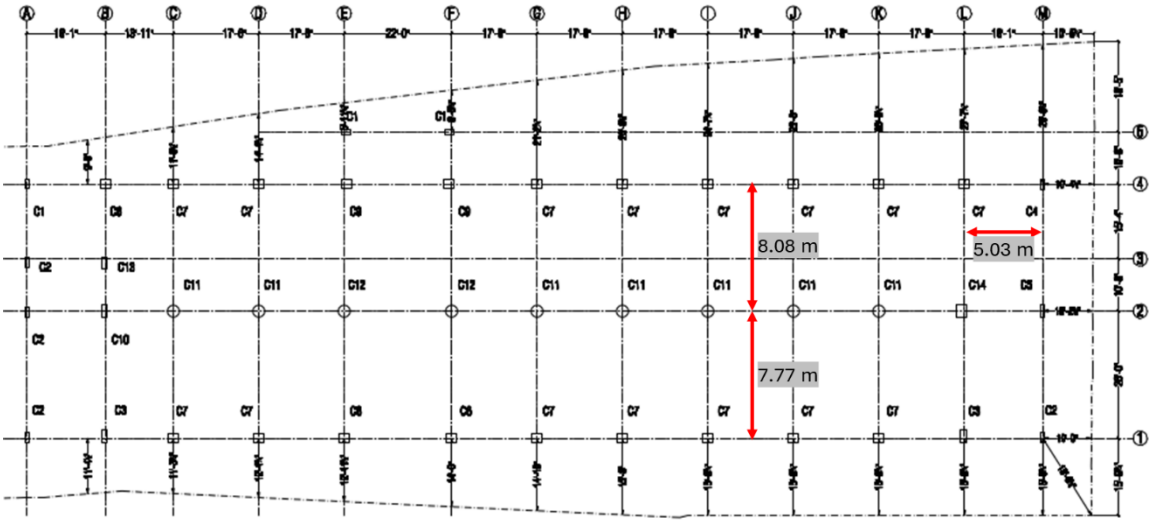
2. Observations:

Building-5 (Store Building)

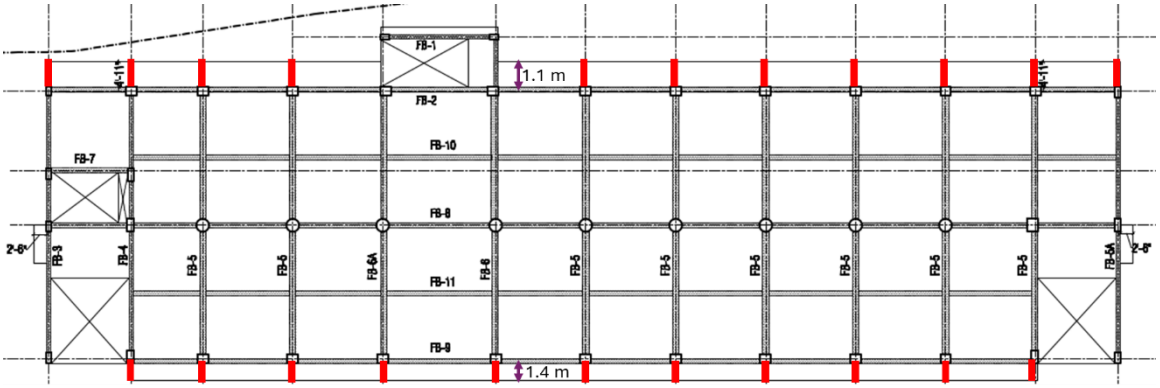
Observation-1: Discrepancy in as-built drawing (Store Building)



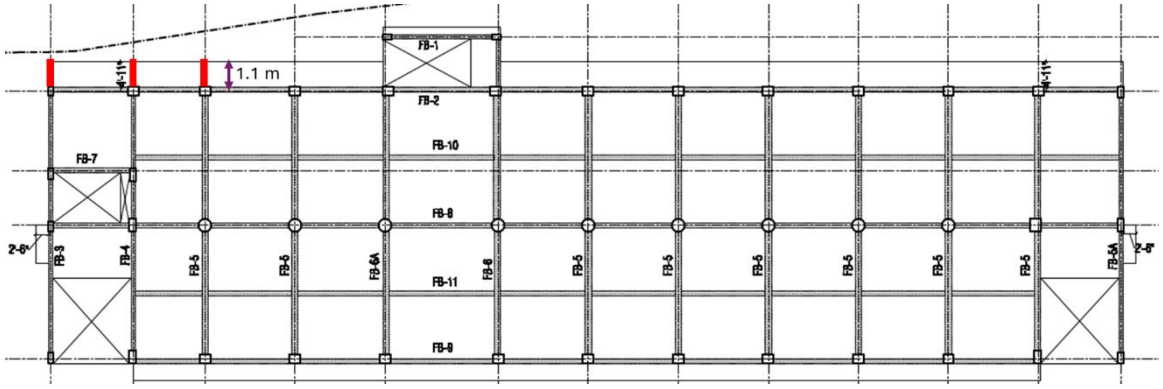
Floor buildup in toilet



Mismatch in grid distance



Cantilever beam in 4th and 5th floor



Cantilever beam in 2nd floor

Cantilver portion

Beam offset from column center

Description: During inspection, 250mm floor build up found in toilet areas of 1st and 2nd floor. Mismatch in grid distance was found at GL 1-2, GL 2-4 and GL L-M. In drawing, no cantilever beam is shown but cantilever beams were found on-site at 2nd, 4th and 5th floor. In drawing, no beam is shown offset to columns but during inspection, beams offset to columns were found at ground floor. The building engineer is required to survey the structure, prepare accurate as-built drawings and update the design report and FEM accordingly.

Observation-2: Corrosion in exposed rebar at roof (Store Building)

Description: Corrosion was observed on exposed rebars at roof. The building engineer is required to remove the corrosion and provide rust-proof coating on all exposed rebars to protect from corrosion.

Observation-3: Water ponding at roof (Store Building)

Description: During inspection, water ponding was found at the roof. The building engineer is required to improve the drainage system by providing adequate slopes and outlets to prevent water ponding.

Observation-4: Lack of anchorage of plastic water tank (Store Building)

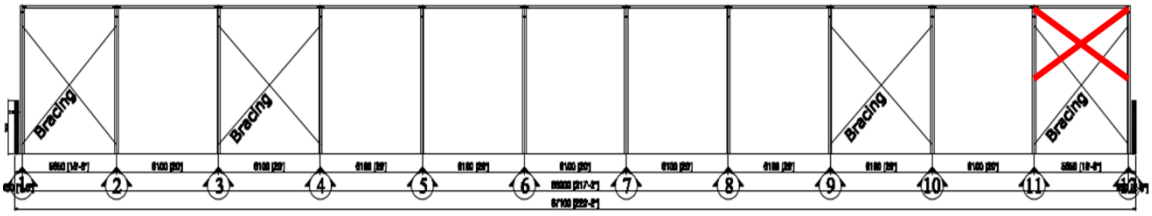
Observation: During inspection, plastic water tank at the roof top was found not anchored. The building engineer is required to anchor or laterally brace all non-structural elements including plastic water tanks to resist earthquake force.

Observation-5: Damaged false slab of toilet at 1st floor (Store Building)

Observation: During inspection, damaged false slab was found at the toilet area of 1st floor. Exposed rebar was also found at the affected area of slab. Factory is required to repair the damaged area of the concrete slab as per the suggestion of the building engineer.

Knitting Shed

Observation 6: Mismatch in as-built drawings (Knitting Shed)

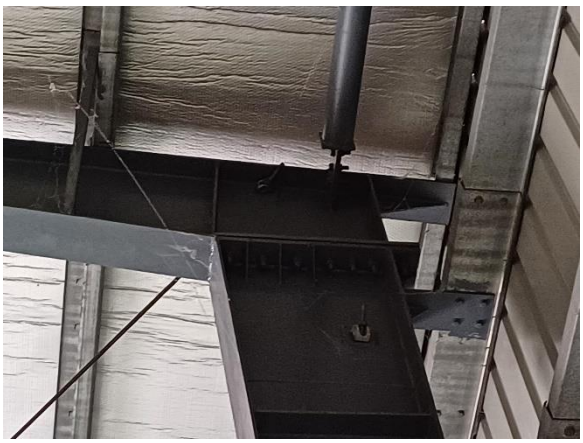


Mismatch in side wall bracing section

Missing drawing of steel canopies

Description: During inspection, mismatch was found in the side wall bracing section. No canopy is shown in the drawing, but during inspection, two canopies were found on-site. The building engineer is required to survey the structure, prepare accurate as-built drawings and update the design report and FEM accordingly.

Observation 7: Significant gap in connection (Knitting Shed)



Description: Significant gaps in the connections of the rafter to the column and rafter to rafter were found. The building engineer is required to identify the locations of the connection gaps, and repair the gaps with a suitable method.

Observation 8: Lack of building permit from local authority (Knitting Shed)

Description: During inspection, no building permit was found for Knitting Shed. The factory is required to collect building permit from government approved local authority.

3. Action Plan:

Serial	Observation	Action Plan	Timeline
1	Discrepancy in as-built drawing (Store Building)	The building engineer is required to survey the structure, prepare accurate as-built drawings and update the design report and FEM accordingly.	within 6 weeks
2	Discrepancy in as-built drawing (Store Building)	Carry out remedial work if required.	within 6 months
3	Corrosion in exposed rebars at roof (Store Building)	The building engineer is required to remove the corrosion and provide rust-proof coating on all exposed rebars to protect from corrosion.	within 6 weeks
4	Water ponding at roof (Store Building)	The building engineer is required to improve the drainage system by providing adequate slope and outlets to prevent water ponding.	within 6 months
5	Lack of anchorage of plastic water tank (Store Building)	The building engineer is required to anchor or laterally brace all non-structural elements including plastic water tanks to resist earthquake force.	within 6 weeks
6	Damaged false slab of toilet at 1st floor (Store Building)	Factory is required to repair the damaged area of the concrete slab as per the suggestion of the building engineer.	within 6 weeks
7	Mismatch in as-built drawings (Knitting Shed)	The building engineer is required to survey the structure, prepare accurate as-built drawings and update the design report and FEM accordingly.	within 6 weeks
8	Mismatch in as-built drawings (Knitting Shed)	Carry out remedial work if required.	within 6 months
9	Significant gap in connection (Knitting Shed)	The building engineer is required to identify the locations of the connection gaps and repair the gaps with a suitable method.	within 6 weeks
10	Lack of building permit from local authority (Knitting Shed)	The factory is required to collect building permit from government approved local authority.	within 6 months