

Snowtex Outer Wear Ltd (Extension)

Plot#65/3, Lakuria para, Dhamrai, Dhaka, Bangladesh

(23.908870, 90.207318)

12 January 2025

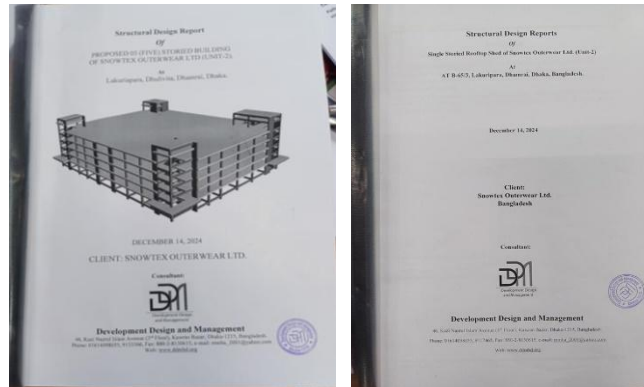


1. Building Information

- 1) Building-3 (Security Childcare & Medical): The structure is a two-storied RC building.
- 2) Building-4 (Compressor & Boiler): It is a single-storied RC building.
- 3) Building-5 (Chemical Store): A single-storied RC building.
- 4) Building 6 (Fire Pump room): A single-storied RC structure with a basement.
- 5) Building-7 (33 KV Substation): A single-storied RC building.
- 6) Building-8 (Compressor Shed): A single-storied steel mono slope shed.
- 7) Building-9 (RMS Room): A single-storied RC building.
- 8) Building-10 (Unit-2): This structure is a five-storied (G+4) reinforced concrete (RC) structure with a steel roof shed.
- 9) Shed-1 (Dining Shed): A single-storied steel mono slope shed.
- 10) Shed-3 (Training Centre): A single-storied steel hip roof shed.
- 11) Car Parking Shed-1: A single-storied steel mono slope shed.
- 12) Car Parking Shed-2: A single-storied steel mono slope shed.
- 13) Car Parking Shed-3: A single-storied steel mono slope shed.

2. Observations:

Observation-1: Design report needs to be reviewed against lateral forces. [Building-10 (Unit-2)]



Description: The building engineer has prepared the design report based on BNBC code. Submit design documents to the RSC for detail review against lateral forces.

Observation-2: Mismatch between as-built drawing and on-site condition. [Building-10 (Unit-2)]



Description: During inspection, floor raise (150 mm for rooftop shed platform & 75 mm for toilet zone) was found which was not mentioned in the drawing. Also, top floor was mentioned as vacant, but some idle machineries were found on site. The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.

Observation-3: Potential falling hazard at the loading-unloading zone. [Building-10 (Unit-2)]



Description: During the inspection, it was noted that the elevated loading-unloading platform lacked railings or barriers at its edges, creating a potential falling hazard. The factory is required to install appropriate safety barriers or railings to mitigate the risk of falls and ensure compliance with safety standards.

Observation-4: Ground floor column susceptible to vehicle impact. [Building-10 (Unit-2)]



Description: The ground floor columns were susceptible to vehicle impact. The building engineer is required to provide separate barriers around the columns to avoid impact from the vehicles.

Observation-5: Trolley impact on columns surface. [Building-10 (Unit-2)]



Description: The cover of floor columns was damaged due to trolley impact. The building engineer is required to provide column/wall guard to protect the trolley impact.

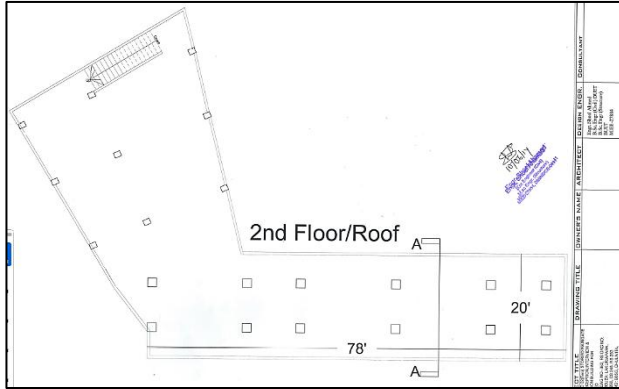
Observation-6: Lack of design report. [Building-3 (Security Childcare & Medical)]



Description: There was no design report for the building. The building engineer is required to prepare necessary design documents including design report, as-built drawings, floor load plan following BNBC section 1.9.1. Include the one-way stair slab adequacy check in the design report. Submit the design documents to the RSC for review.

Observation-7: Lack of information in the as-built drawing.

[Building-3 (Security Childcare & Medical)]



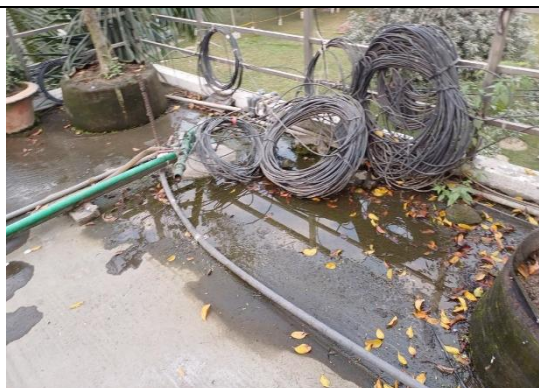
Description: 3 water tanks were observed on the roof which were not shown in the drawing. The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.

Observation-8: Crack in brick wall. [Building-3 (Security Childcare & Medical)]



Description: Several cracks in brick walls were observed in the cantilever stair portion of the building. The building engineer is required to investigate the reason for the crack and repair the cracks following suitable repair methodology.

Observation-9: Lack of drainage system on the roof. [Building-3 (Security Childcare & Medical)]



Description: Water ponding was observed on the roof. The building engineer is required to improve the roof drainage system with proper slope and an adequate number of water outlets.

Observation-10: Cantilevered canopy missing in the as-built drawings of Building-4 (Compressor & Boiler), Building-5 (Chemical Store), and Building-6 (Fire Pump room).



Description: Canopy details were missing in the as-built drawings of Building-4 (Compressor & Boiler), Building-5 (Chemical Store), and Building-6 (Fire Pump room). The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.

Observation-11: Lack of foundation and anchorage for external steel stairs adjacent to Building-7 (33 KV Substation).



Description: Lack of foundation and anchorage was observed for the external steel stair. The building engineer is required to provide required anchorage and prepare as-built drawings.

Observation-12: Lack of connection detail in the as-built drawings for Building-8 (Compressor Shed).



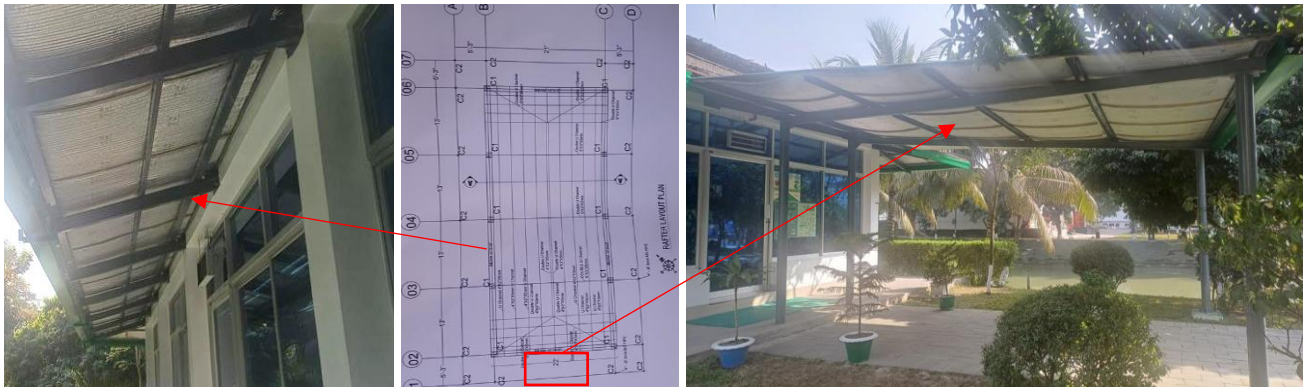
Description: The connection between frames and purlins was not shown in the drawing. The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.

Observation-13: Lack lateral load transfer media (bracing & strut) in the Shed-1 (Dining Shed).



Description: Lack of bracing system along the long direction of the shed was observed. The building engineer is required to check the lateral stability system (bracing & strut) of the shed and prepare an Engineering Assessment (EA) report with proper remedial actions.

Observation-14: Mismatch between drawing and onsite conditions for the Shed-3 (Training Centre).



Description: The front steel canopy area and the peripheral cantilever beams were not shown in the as-built drawings. The building engineer is required to survey the structure and prepare accurate as-built drawings with connection details.

Observation-15: Lack of as-built drawings for the Car Parking Shed-1, 2, & 3



Description: There were no documents for the parking sheds. The building engineer is required to survey the structure and prepare the accurate as-built drawings with connection details.

3. Action Plan:

Item No	Observation	Action Plan	Timeline
1.	Design report needs to be reviewed against lateral forces. [Building-10 (Unit-2)]	The building engineer is required to submit design documents to the RSC for detailed review against lateral forces.	within 6 weeks
2.		Carry out remedial work if required.	within 6 months
3.	Mismatch between as-built drawing and on-site condition. [Building-10 (Unit-2)]	The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.	within 6 weeks
4.	Potential falling hazard at the loading-unloading zone. [Building-10 (Unit-2)]	The building engineer is required to install appropriate safety barriers or railings to mitigate the risk of falls and ensure compliance with safety standards.	within 6 weeks
5.	Ground floor column susceptible to vehicle impact. [Building-10 (Unit-2)]	The building engineer is required to provide separate barriers around the columns to avoid impact from the vehicles.	within 6 weeks
6.	Trolley impact on columns surface (Unit-2).	The building engineer is required to provide column/wall guard to protect the trolley impact.	within 6 weeks
7.	Lack of design report. [Building-3 (Security Childcare & Medical)]	The building engineer is required to prepare necessary design documents including design report, as-built drawings, floor load plan following BNBC section 1.9.1. Include the one-way stair slab adequacy check in the design report. Submit the design documents to the RSC for review.	within 6 weeks
8.		Carry out remedial work if required.	within 6 months
9.	Lack of information in the as-built drawing. [Building-3 (Security Childcare & Medical)]	The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.	within 6 weeks
10.	Crack in brick wall. [Building-3 (Security Childcare & Medical)]	The building engineer is required to investigate the reason for the crack and repair the cracks following suitable repair methodology.	within 6 weeks
11.	Lack of drainage system on the roof. [Building-3 (Security Childcare & Medical)]	The building engineer is required to improve the roof drainage system with proper slope and an adequate number of water outlets.	within 6 months
12.	Cantilever canopy missing in the as-built drawings of Building-4 (Compressor & Boiler), Building-5 (Chemical Store), and Building-6 (Fire Pump room)	The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.	within 6 weeks

13.	Lack of foundation and anchorage for external steel stairs adjacent to Building-7 (33 KV Substation).	The building engineer is required to provide required foundation, anchorage, and prepare as-built drawings.	within 6 weeks
14.	Lack of connection detail in the as-built drawings for Building-8 (Compressor Shed).	The building engineer is required to survey the structure and update the accurate as-built drawing as per actual site condition.	within 6 weeks
15.	Lack lateral load transfer media (bracing & strut) in the Shed-1 (Dining Shed).	The building engineer is required to check the lateral stability system (bracing & strut) of the shed and prepare an Engineering Assessment (EA) report with proper remedial actions.	within 6 weeks
16.		Carry out necessary remedial works	within 6 months
17.	Mismatch between drawing and onsite conditions for the Shed-3 (Training Centre).	The building engineer is required to survey the structure and update accurate as-built drawing with connection details.	within 6 weeks
18.	Lack of as-built drawings for the Car Parking Shed-1, 2, & 3.	The building engineer is required to survey the structure and prepare accurate as-built drawings with connection details.	within 6 weeks