

Sadma Fashion Wear Ltd. (Extension 2)

Mouchak, Kaliakoir, Gazipur

(24.022389, 90.287992)

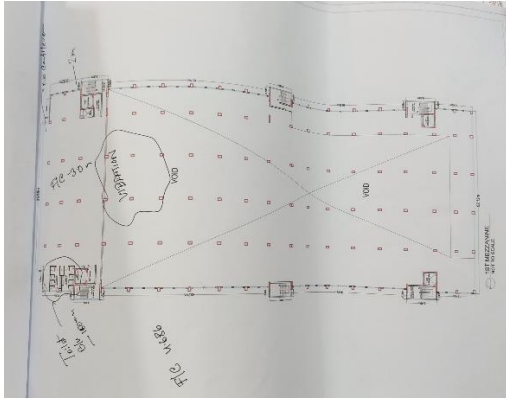
1 October 2024

1. Building Information

1. New Dyeing Building
2. New Utility building
3. Warehouse Building
4. Thermo Oil Heater Shed
5. Finished Stroe Shed

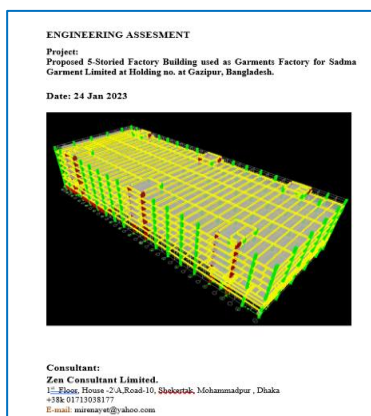
2. Observations

Observation 01: Mismatches in as-built drawings. (New Dyeing Building)



Description: The beam layout above the ground floor was found missing in the drawings. Also, architectural drawings were not fully matched on the 1st floor. Moreover, the toilet built-up is not shown in the drawings. The building engineer is required to prepare as-built drawings reflecting the on-site condition.

Observation 02: Lack of information in the design report. (New Dyeing Building)



Description: A design report was available for the building in which wind load calculation, and concrete strength calculation according to BNBC 5.12 were not found. The structural design report needs to be revised as per 1.9.1 BNBC and submitted to RSC for further review.

Observation 03: Falling hazard risk on stairs and current roof. (New Dyeing Building)



Description: Falling hazard risk was found on the stairs and existing roof. The building engineer is required to provide adequate edge protection to prevent falling hazards.

Observation 04: Corrosion on Exposed rebar. (New Dyeing Building)



Description: Corrosion was observed on exposed rebars. The building engineer is required to provide rust-proof paint on exposed rebars to protect them from corrosion.

Observation 05: Column susceptible to vehicle impact. (New Dyeing Building)



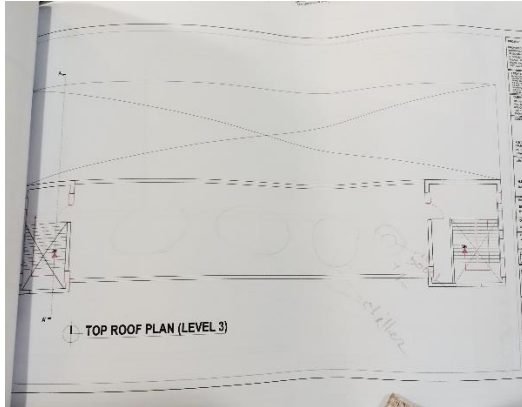
Description: Columns in the loading and unloading area are susceptible to vehicle impact. The building engineer is required to provide barriers around the column to protect against possible vehicle impact.

Observation 06: Water ponding and vegetation growth on the roof. (New Dyeing Building)



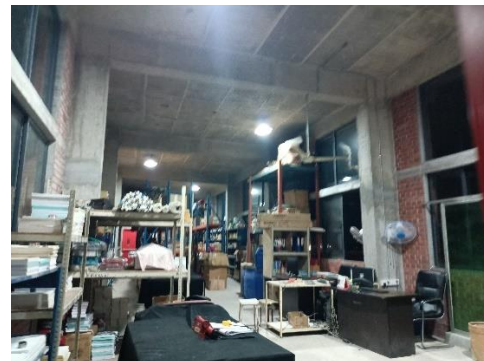
Description: Water ponding and vegetation growth were observed on the existing roof. The building engineer is required to provide adequate slopes to discharge the rainwater. Also, clean up the vegetation.

Observation 07: Lack of information in drawings. (New Utility building)



Description: The roof chiller and plastic water tank were not shown in the roof layout. The building engineer is required to prepare as-built drawings reflecting the on-site condition.

Observation 08: Absence of design documents and load plan (New Utility building).



Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. The design document shall include a design report and a structural drawing. At the time of inspection, no design reports were available which are required to be prepared in compliance with section 1.9.1.1 and section 1.9.1.2 (part 6, BNBC).

Observation 09: Water ponding on the roof (New Utility building)



Description: Stagnant water due to undulation of the screed. The building engineer is required to provide an adequate slope to discharge the stagnant water.

Observation 10: Paucity in drawings. (Warehouse Building)



Description: Floor layouts were not fully matched with drawings. Also, the landing beam was found offset to the column which is not mentioned in the drawings. On the other hand, no drawings were available for the adjacent 2-storied Dozing part. The building engineer is required to prepare as-built drawings reflecting the on-site condition.

Observation 11: Absence of design documents. (Warehouse Building)



Description: As per BNBC, every building or structure designed shall have its design documents prepared following 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. At the time of inspection, no design reports were available which are required to be prepared in compliance with section 1.9.1.1 and section 1.9.1.2 (part 6, BNBC).

Observation 12: Construction materials on existing roof. (Warehouse building)



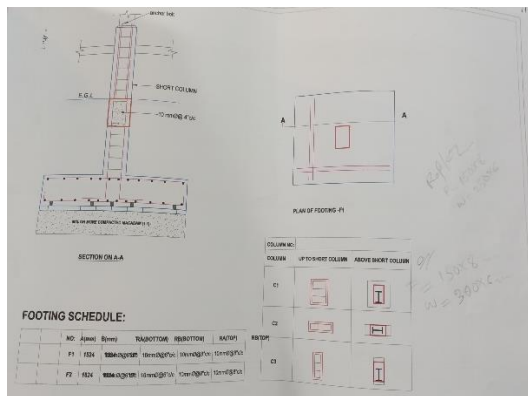
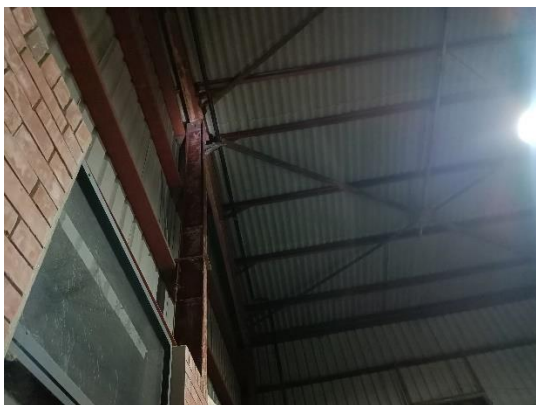
Description: Massive construction materials were found almost everywhere on the existing roof. The building engineer is required to remove all kinds of construction materials from the roof.

Observation 13: Lack of building approval from the local authority. (Warehouse Building)



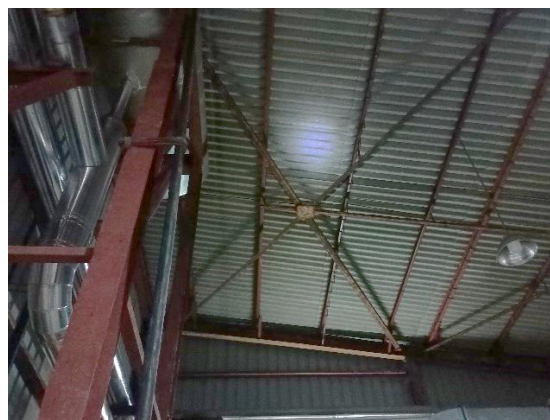
Description: At the time of inspection, no approval drawing from the local authority was available for the above-mentioned structure. The building engineer is required to seek approval from the local authority.

Observation 14: Lack of information in drawings. (Thermo Oil Heater Shed)



Description: Steel member size and connection details were not available on the provided drawings. The building engineer is required to prepare a full set of as-built drawings reflecting the on-site condition.

Observation 15: Absence of complete lateral load transfer media. (Thermo Oil Heater Shed).



Description: Only roof bracing was available on the shed. Vertical bracing or compression strut was not found. The building engineer is required to check the connection & stability system (safety check) for the whole structure and suggest proper remediation accordingly following the Accord Building Standard.

Observation 16: Lack of as-built drawings (Finished Storage - Old Dyeing Finishing).



Description: As built drawings were not available for the shed. The building engineer is required to prepare a full set of as-built drawings reflecting the on-site condition.

Observation 17: Lack of lateral stability. (Finished Storage - Old Dyeing Finishing)



Description: Load transfer media is not provided along the long direction for this shed. Therefore, the lateral stability system of the shed is incomplete. The building engineer is required to check the lateral stability of the structure.

Observation 18: Unbrace storage racks/plastic tanks. (All structures)



Description: Non-anchored racking system and unbraced plastic tanks were found. The building engineer is required to provide adequate anchoring or bracing to all the non-structural elements including the racking system.

3. Action Plan:

Item No	Observation	Action Plan	Timeline
1.	Mismatches in as-built drawings. (New Dyeing Building)	The building engineer is required to prepare as-built drawings reflecting the on-site condition.	within 6 weeks
2.	Lack of information in the design report. (New Dyeing Building)	The structural design report needs to be revised as per BNBC and submitted to RSC for further review.	within 6 weeks
3.	Lack of information in the design report. (New Dyeing Building)	Verify in situ concrete strength by taking concrete cores or existing cylinder test data that meets BNBC 5.12.	within 6 weeks
4.	Lack of information in the design report. (New Dyeing Building)	Implement the recommendations of the design report.	within 6 months
5.	Lack of information in the design report. (New Dyeing Building)	Implement floor load plan.	within 6 months
6.	Falling hazard risk on stairs and current roof. (New Dyeing Building)	The building engineer is required to provide adequate edge protection to prevent falling hazards.	Immediate
7.	Corrosion on the exposed rebar. (New Dyeing Building)	The building engineer is required to provide rust-proof paint on exposed rebars to protect them from corrosion.	within 6 weeks
8.	Column susceptible to vehicle impact. (New Dyeing Building)	The building engineer is required to provide barriers around the column to protect against possible vehicle impact.	within 6 weeks
9.	Water ponding and vegetation growth on the roof. (New Dyeing Building)	The building engineer is required to provide an adequate slope to discharge the rainwater. Also, clean up the vegetation.	within 6 weeks
10.	Lack of information in drawings. (New Utility building)	The building engineer is required to prepare as-built drawings reflecting the on-site condition.	within 6 weeks
11.	Absence of design documents and load plan (New Utility building).	Prepare design report for the structure as per 1.9.1 BNBC.	within 6 weeks
12.	Absence of design documents and load plan (New Utility building).	Implement the recommendations of the design report.	within 6 months
13.	Absence of design documents and load plan (New Utility building).	Implement floor load plan.	within 6 months

14.	Water ponding on the roof (New Utility building)	The building engineer is required to provide an adequate slope to discharge the stagnant water.	within 6 weeks
15.	Paucity of drawings. (Warehouse Building)	The building engineer is required to prepare as-built drawings reflecting the on-site condition.	within 6 weeks
16.	Absence of design documents. (Warehouse Building)	Prepare design report for the structure as per 1.9.1 BNBC.	within 6 weeks
17.	Absence of design documents. (Warehouse Building)	Implement the recommendations of the design report.	within 6 months
18.	Absence of design documents. (Warehouse Building)	Implement floor load plan.	within 6 months
19.	Construction materials on the existing roof. (Warehouse building)	The building engineer is required to remove all kinds of construction materials from the roof.	within 6 weeks
20.	Lack of building approval from local authorities. (Warehouse Building)	The building engineer is required to seek approval from the local authority.	within 6 months
21.	Lack of information in drawings. (Thermo Oil Heater Shed)	The building engineer is required to prepare a full set of as-built drawings reflecting the on-site condition.	within 6 weeks
22.	Absence of complete lateral load transfer media. (Thermo Oil Heater Shed)	The building engineer is required to check the connection & stability system (safety check) for the whole structure and suggest proper remediation accordingly following Accord Building Standards.	within 6 weeks
23.	Absence of complete lateral load transfer media. (Thermo Oil Heater Shed)	Implement the recommendations of the safety check report.	within 6 months
24.	Lack of as-built drawings (Finished Storage - Old Dyeing Finishing)	The building engineer is required to prepare a full set of as-built drawings reflecting the on-site condition.	within 6 weeks
25.	Lack of lateral stability. (Finished Storage - Old Dyeing Finishing)	The building engineer is required to check the lateral stability of the structure.	within 6 weeks
26.	Lack of lateral stability. (Finished Storage - Old Dyeing Finishing)	Implement the remedial work if required.	within 6 months
27.	Unbrace storage racks/plastic tanks. (All structures)	The building engineer is required to provide adequate anchoring or bracing to all the non-structural elements including the racking system.	within 6 weeks