GENESIS FASHIONS LTD. (EXTENSION - 3)

126/1 Kadda Nandun, Kadda Bazar, Gazipur sadar, Gazipur, Bangladesh

(23.984373, 90.357314)

17 February 2026

RSC RMG SUSTAINABILITY COUNCIL

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1. Building Information

1. Cutting Shed (Single Storied)
2. Wastage & Stone Shed (Single Storied)
3. Workshop Shed-2 (Single Storied)

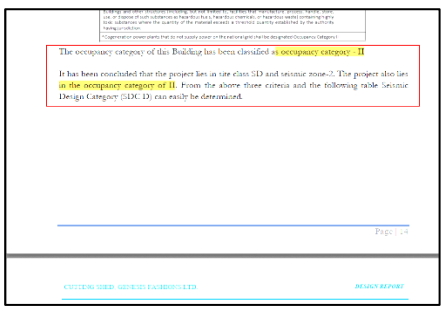
2. Observations

Observation 01: Lack of building permit drawings for all structures.

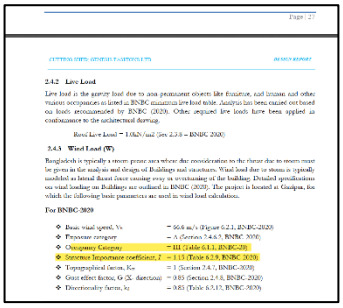

Description: During inspection, building permit drawings from the local authority were not found for any structures.

The building engineer is required to collect permit drawings for all the structures from the local authority and submit them to RSC for review.

Observation 02: Lack of information in the Design report (Cutting Shed).


The occupancy category of this Building has been classified as occupancy category – II

It has been concluded that the project lies in site class SD and seismic zone-2. The project also lies in the occupancy category of II. From the above three criteria and the following table Seismic Design Category [SDC (I)] can easily be determined.


2.4.2 Live Load

Live load is the gravity load due to area permanent objects like furniture, and humans and other transient occupancies as listed in BNBC maximum live load table. Analysis has been carried out based on loads recommended by BNBC (2020). Other required live loads have been applied as conformance to the architectural drawings.

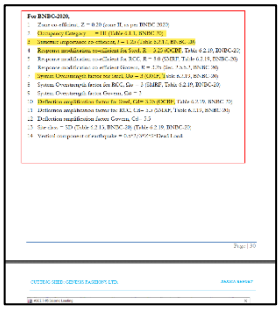
Roof Live Load = 144kN/mm² (Sec 2.3.8 – BNBC 2020)

2.4.3 Wind Load (W)

Bangladesh is typically a severe prone area where due consideration to the threat due to severe wind must be given in the analysis and design of Buildings and structures. Wind load due to storm is typically modelled as lateral thrust force causing sway or overturning of the building. Detailed specifications on wind loading on Buildings are outlined in BNBC (2020). The project is located at Gazipur, for which the following basic parameters are used in wind load calculation.

For BNBC-2020

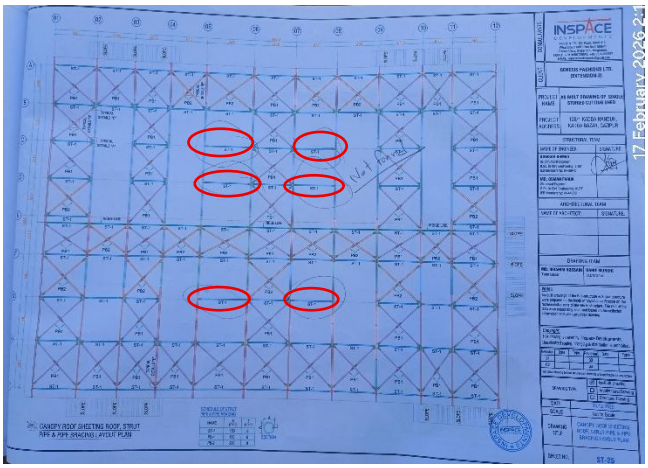
- Basic wind speed, V_b = 50.6 m/s (Figure 6.2.1, BNBC-2020)
- Exposure category = A (Section 2.4.6.3, BNBC 2020)
- Occupancy Category = III (Table 6.1.1, BNBC-20)
- Structure Importance coefficient, I = 1.15 (Table 6.2.9, BNBC 2020)
- Topographical factor, K_{zt} = 1 (Section 2.4.7, BNBC-2020)
- Gust effect factor, G (X- direction) = 0.85 (Section 2.4.8, BNBC 2020)
- Directionality factor, k_d = 0.85 (Table 6.3.13, BNBC-2020)


For BNBC-2020,

Description: During inspection, a design report was available, but it doesn't include all types of required serviceability checks (Displacement and Drift for all types of lateral load are not provided). A detailed check/calculation for punching shear & beam shear (one-way & two-way shear failure) is not provided. In addition, inconsistent information was provided about the occupancy category & framing types of the structure.

The Building engineer is required to update the design report as per 1.9.1 of BNBC and check all types of required serviceability and submit them to RSC for review.

Observation 03: Mismatch in as-built drawings [Cutting Shed]



Description: During inspection, mismatches were observed in the strut member layout plan of the cutting shed. Some strut members at roof frame were found missing with respect to the available as-built drawings.
The building engineer is required to survey the whole & prepare a comprehensive as-built drawing, submit it to the RSC for review.

Observation 04: Corrosion on the steel member. [Cutting shed, Wastage & Stone Shed, and Workshop Shed-2]

Description: Corrosion was found on the steel members of the building (Cutting shed, Wastage & Stone Shed, and Workshop Shed-2). The building engineer is required to remove rust and apply anti-

corrosive paints.

Observation 05: Potential Falling hazard from the platform [Cutting shed].

Description: The building engineer is required to install a railing/safety chain at all potential falling hazard locations.

Observation 06: Lack of Anchor/Brace for storage racks (Cutting Shed, Workshop Shed-2).

Description: The building engineer is required to provide an anchor/brace at all storage racks.

Observation 07: Lack of as-built drawings, material test report, and design documents. [Wastage & Stone Shed and Workshop Shed-2]

Description: During inspection, no as-built drawing was found for these structures. Also, there was no steel/concrete material test report and soil test report for these structures.
The building engineer is required to carry out Detail Engineering Assessment (DEA) for the structure to verify the foundation details, concrete/steel/soil material strength, and prepare an assessment report. Prepare a full set of DEA documents with a detailed remedial action plan. Submit the DEA documents to the RSC for review.

3. Action Plan:

Item No	Observation	Action Plan	Timeline
1.	Lack of building permit drawings for all structures.	Collect building permit drawings from the applicable local authority.	within 6 months
2.	Lack of information & inconsistent data in the Design report (Cutting Shed).	The Building engineer is required to update the design report as per 1.9.1 of BNBC and check all types of required serviceability and submit them to RSC for review.	within 6 weeks
3.		Implement any required remediation work after acceptance from RSC.	within 6 months
4.	Mismatch in the as-built drawing (Cutting Shed).	The building engineer is required to survey the whole & prepare a comprehensive as-built drawing, submit it to the RSC for review.	within 6 weeks
5.	Corrosion on the steel member (cutting shed).	The building engineer is required to remove rust and apply anti-corrosive paints with suitable method.	within 6 weeks
6.	Potential Falling hazard from the platform (cutting shed).	The building engineer is required to install a railing/safety chain at all potential falling hazard locations.	within 6 weeks
7.	Lack of Anchor/Brace for storage racks (Cutting Shed).	The building engineer is required to provide an anchor/brace at all storage racks.	within 6 weeks
8.	Lack of as-built drawings, material test report, and design documents (Workshop Shed-2).	The building engineer is required to survey the whole structure and prepare as-built drawings with foundation and connection details.	within 6 weeks
9.		Carry out Detail Engineering Assessment (DEA) report with remedial actions considering the as-built structural system and material strength. Submit DEA documents to the RSC for review.	within 6 weeks
10.		Implement any required remediation work after acceptance from RSC.	within 6 months
11.	Lack of Anchor/Brace for storage racks (Workshop Shed-2).	The building engineer is required to provide an anchor/brace at all storage racks.	within 6 weeks
12.	Corrosion on the steel member (Workshop Shed-2).	The building engineer is required to remove rust and apply anti-corrosive paints with suitable method.	within 6 weeks
13.	Lack of as-built drawings, material test report, and design documents (Wastage	The building engineer is required to survey the whole structure and prepare as-built drawings with foundation and connection	within 6 weeks

	& Stone Shed).	details.	
14.		Carry out Detail Engineering Assessment (DEA) report with remedial actions considering the as-built structural system and material strength. Submit DEA documents to the RSC for review.	within 6 weeks
15.		Implement any required remediation work after acceptance from RSC.	within 6 months
16.	Corrosion on the steel member (Wastage & Stone Shed).	The building engineer is required to remove rust and apply anti-corrosive paints with suitable method.	within 6 weeks