

Shanta Denims Limited (Extension)

Shanta Denims Limited, Plot No: 156 & 177-179, DEPZ (Extension Zone)

Ganakbari, Dhamsona, Ashulia, Savar, Dhaka-1349, Bangladesh

(23.944119, 90.279151)

17 December 2024

Structural Inspection Report

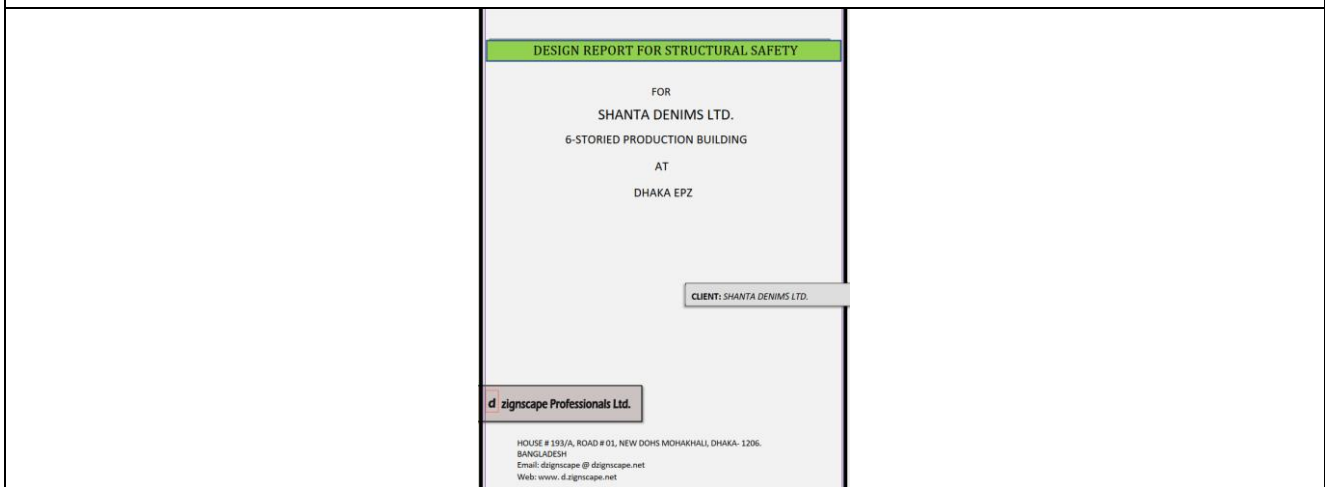


1. Building Information:

Building-6 (New Production Building)	6-storied (G+5) RC building.
Building-7 (Fire Pump Room-2)	Single-storied RC building.
Building-8 (Boiler Room)	Single-storied RC building.
Building-9 (Utility Building-2)	Single-storied RC building.
Building-10 (Security Shed-2)	Single-storied Steel building.
Building-11 (RMS Room-2)	Single-storied RC building.

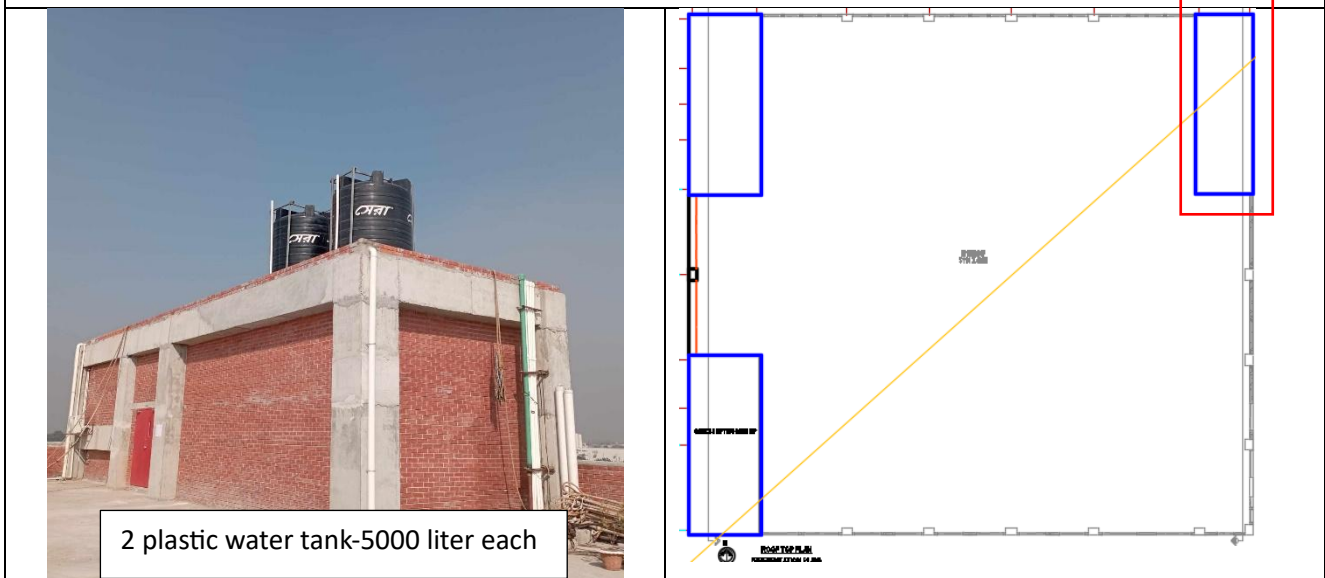
4. Observation

Observation 1: Lack of information in the design report. (New Production Building).

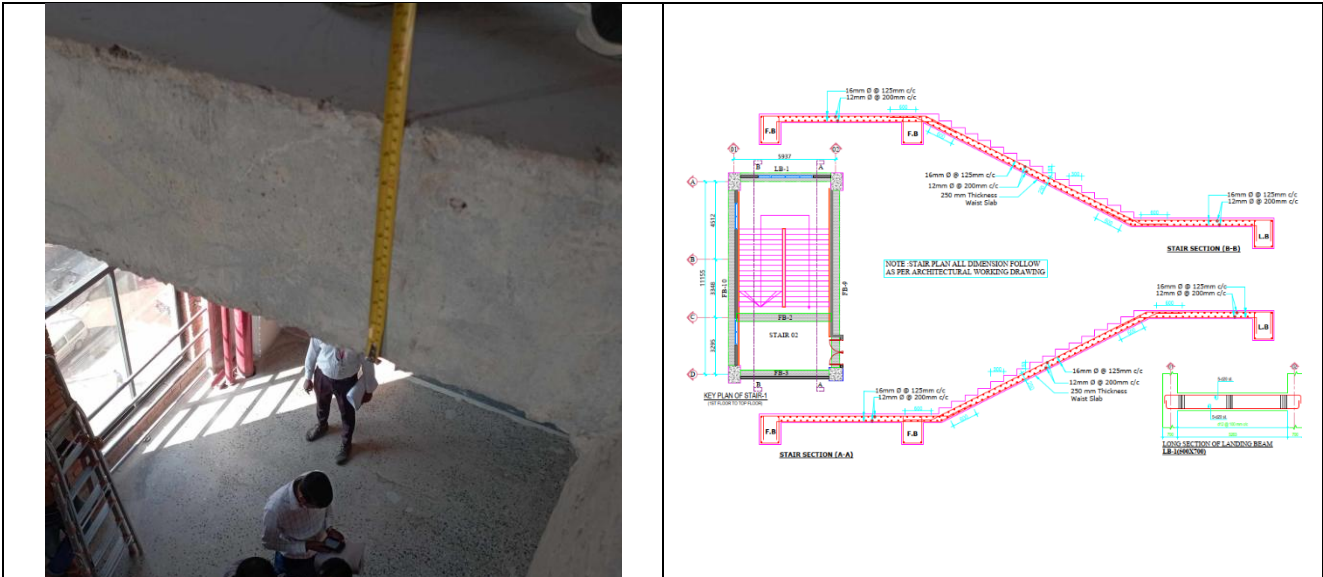


Description: In the design report (as per BNBC-2020), the framing system is not defined. The value of the response modification factor (R) is considered as 5 without any calculation and justification. The building engineer is required to update the design report as per 1.9.1-BNBC and submit it to RSC for review.

Observation-2: Discrepancy and missing information in as-built drawing (New Production Building).



Description: 2 plastic water tanks-(5000 liters each) were observed on the stair op slab but not shown in the as-built drawing. The building engineer is required to update the as-built drawing.



Description: Slab thickness of landing slab is not shown in the as-built drawing. The building engineer is required to update the as-built drawing.

Observation 3: Possibility of vehicle impact (New Production Building).



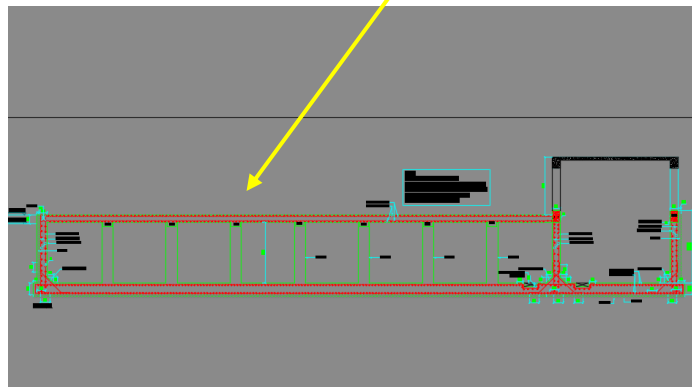
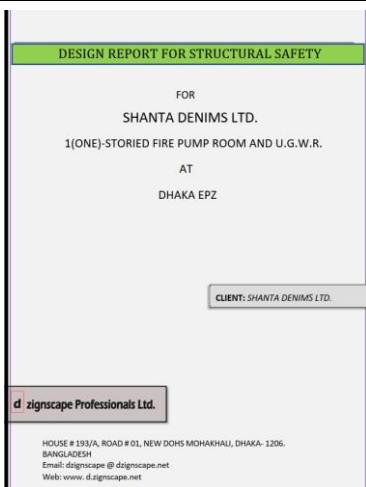
Description: Exposed columns were found prone to vehicle impact. The building engineer is required to provide a barrier to the exposed column to avoid vehicle impact.

Observation-4: Nonstructural elements found not anchored/braced (New Production Building).



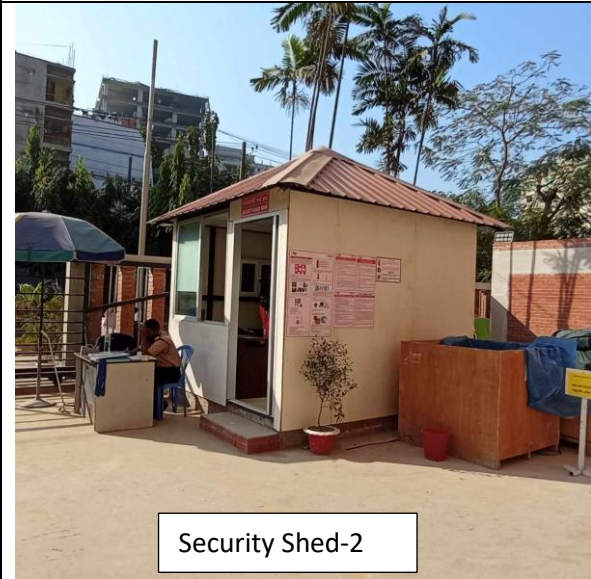
Description: Nonstructural elements (storage racks) were found not anchored/braced. The building engineer is required to anchor/brace all nonstructural elements within the factory.

Observation-5: Lack of load plan and information in the design report (Fire pump room-2).



Description: No load plan was available for the structure (parking area over water tank). The value of response modification factor (R) is considered as 5 without any calculation and justification. The building engineer is required to update the design report as per 1.9.1-BNBC and submit it to RSC for review.

Observation-6: Lack of as-built drawing (Security Shed-2, RMS Room-2).



Security Shed-2



RMS Room-2

Description: As-built drawing of Security Shed-2 and RMS Room-2 was not found on site. The building engineer is required to prepare the as-built drawing of Security Shed-2 and RMS Room-2.

5. Action Plan

Item No.	Observation	Action Plan	Timeline
1.	Lack of information in the design report. (New Production Building).	The building engineer is required to update the design report as per 1.9.1-BNBC and submit it to RSC for review.	within 6 weeks
2.		Implement remediation work if required.	within 6 months
3.	Discrepancy and missing information in as-built drawing (New Production Building).	The building engineer is required to update the as-built drawing.	within 6 weeks
4.	Possibility of vehicle/trolley impact (New Production Building).	The building engineer is required to provide a barrier to the exposed column to avoid vehicle impact.	within 6 weeks
5.	Nonstructural elements (storage racks) were found not anchored/braced (Main Production Building).	The building engineer is required to anchor/brace all nonstructural elements within the factory.	within 6 weeks
6.	Lack of load plan and information in the design report (Fire pump room-2).	The building engineer is required to update the design report as per 1.9.1-BNBC and submit it to RSC for review.	within 6 weeks
7.		The building engineer is required to produce a load plan for the parking area over the water tank.	within 6 weeks
8.		Implement remediation work if required.	within 6 months
9.	Lack of as-built drawing (Security Shed-2, RMS Room-2).	The building engineer is required to produce the as-built drawing.	within 6 weeks