Vintage Denim Apparels Ltd.
(New building)

Boherarchala, Sreepur, Gazipur-1740.

(24.191195, 90.405885)

25 February 2024

RSC RMG SUSTAINABILITY COUNCIL

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1. Building Information

Building 6 – Security Gate 3: Single storied RC building.

Building 8 – Production Building: Six storied (G+5) RC building.

Building 9 – Utility Building: Four storied (G+M+3) RC building with a mezzanine.

Shed 6 – Civil Office: Single storied steel shed supported by RC column.

Shed 7 – LT 3: Single storied steel shed supported by RC column.

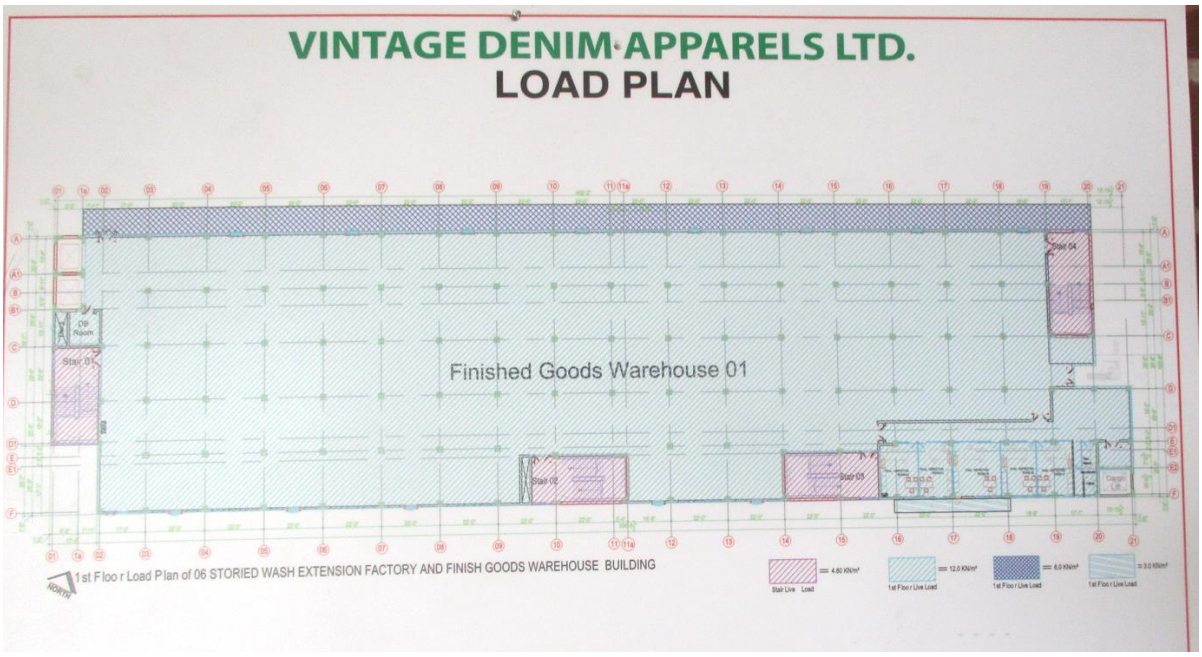
Shed 8 – Acid Wash: Single storied steel shed supported by RC column.

2. Observations

Observation-1: Inconsistency in the design documents. (Building 8 – Production Building)

Table 3-1: Live Loads provided in the model of the building

Floor	Load Type	Basic load	Provided load
GF	Live Load	LL	-
1st Floor to 2nd Floor	Live Load	LL	6.0 kN/m^2
3th Floor to 5th Floor	Live Load	LL	5.0 kN/m^2
Roof	Live Load	LL	3.0 kN/m^2



Description: In the design report live load considered as 3, 5, 6 kPa for roof, production, and storage areas respectively. But in the posted load plan we found 3, 6, 12 kPa for roof, production, and storage areas.

10.2 Pile Capacity Consideration

A pile capacity of 80 tons for a 20-inch diameter bored or cast-in-situ pile, 80 feet in length, and a factor of safety of 2.0 provides for this foundation of the structure. This level of load-bearing capacity, supported by soil test reports and pile load tests, ensures stability and reliability for your project.

Description: In the design report pile capacity considered 80 tons (FoS=2.0) based on soil test report and pile load test. But no pile load test report was found onsite.

The building engineer is required to revise the design documents considering the inconsistencies and submit the documents to RSC for review.

Observation-2: Inconsistency in the design documents. (Building 9 – Utility Building)

10.2 Pile Capacity Consideration

A pile capacity of **80 tons for a 20-inch diameter** bored or cast-in-situ pile, **80 feet in length**, and a **factor of safety of 2.5** provides for this foundation of the structure. This level of load-bearing capacity, supported by soil test reports and pile load tests, ensures stability and reliability for your project.

Description: In the design report pile capacity considered 80 tons (FoS=2.5) based on soil test report and pile load test. But no soil test or pile load test report was found onsite.

The building engineer is required to revise the design documents considering the inconsistencies and submit the documents to RSC for review.

Observation-3: Possible falling hazard. (Building 9 – Utility Building)

Falling Hazard on 1st floor

Falling Hazard on 1st floor

Description: During the inspection, no barrier was observed in the 1st floor window area. The factory is required to provide a protective barrier to avoid the possible falling hazard.

3. Action Plan

Observation	Action Plan	Timeline
Inconsistency in the design documents. (Building 8 – Production Building)	The building engineer is required to revise the design documents considering the inconsistencies and submit the documents to RSC for review.	within 6 weeks
	Carry out remedial work where required.	within 6 months
Inconsistency in the design documents. (Building 9 – Utility Building)	The building engineer is required to revise the design documents considering the inconsistencies and submit the documents to RSC for review.	within 6 weeks
	Carry out remedial work where required.	within 6 months
Possible falling hazard on the roof. (Building 9 – Utility Building)	The factory is required to provide protective barriers to avoid possible falling hazards.	within 6 weeks