

Knit Valley Fashions Limited

Kalma, Dairy Farm, Savar, Dhaka.

(23.872470, 90.292968)

01 August 2022



Building Information

Production Building: The structure is a two-storied (G+1) reinforced concrete (RC) structure.

Head Office Building: The structure is a two-storied (G+1) reinforced concrete (RC) structure.

Main Gate Building: The structure is a two-storied (G+1) reinforced concrete (RC) structure.

Utility Building: The structure is a single-storied reinforced concrete (RC) structure.

Observations

Design report not available

**Observation: Production Building, Head Office Building,
Main Gate Building, Utility Building.**



Production Building



Main Gate Building



Utility Building



Head Office Building

As per BNBC, every building or structure designed shall have its design documents prepared in accordance with 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, the design report was not available which is required to be prepared in compliance with section 1.9.1.1 and section 1.9.1.2 (part-6, BNBC).

Observation: Production Building, Head Office Building, Main Gate Building, Utility Building.

Cracks observed on the façade wall and brick wall



Crack was observed at façade wall & brick wall. Building engineer is required to check the extent of crack and suggest proper repair methodology.

Observation: Production Building

Connecting stair between production building & head office building



Connecting stair between the production building & head office building.



Connection joints between the steel part & RC part.

Connecting stair observed between the production building & head office building. As-built drawing was not found on-site. Moreover, the load transfer media and connection of members seemed to be inadequate. The building engineer is required to prepare accurate as-built drawings and check the adequacy of the members & connections for seismic loading.

Water stagnant on the roof



Water clogging on roof.

Stagnant water on the roof was observed. Also, dampness observed in several places. The building engineer is required to develop proper drainage system on the roof with adequate slopping. Repair the damped area as per engineer's guideline.



Dampness was observed in several places on the 1st floor.

Observation: Production Building

Stagnant water on the roof

Observation: Head Office Building



Water clogging on the roof and dampness on wall & beam

Water Clogging on the roof was observed. Also, dampness observed in several places. The building engineer is required to develop proper drainage system on the roof with adequate slopping. Repair the damped area as per engineer's guideline.

Observation: Main Office Building

Exposed rebar on the roof



Corroded rebar on roof.

Corroded rebar on the roof was observed. The building engineer is required to apply anti-corrosive paint on exposed rebar as per engineer's guideline.

Observation: Head Office Building

Possible falling hazard



No parapet wall or protection provided on the roof

The building engineered is required to provide the parapet wall surrounding the roof to avoid possible falling hazards.

Stagnant water on the roof



Water clogging on roof

Stagnant water on the roof was observed on the roof. The factory is required to develop a proper drainage system on the roof with an adequate slope.

Observation: Main Gate Building

Lack of as-built structural drawing



Lack of as-built structural drawing

The building engineer is required to survey the structure and to prepare the structural as-built drawing.

Observation: Utility Building

Problems Observed

Production Building:

Item 01: Design report not available.

Item 02: Crack observed on the façade wall and brick wall.

Item 03: Connecting stair between production building & head office building.

Item 04: Stagnant water on the roof.

Head Office Building:

Item 05: Design report not available.

Item 06: Stagnant water on the roof.

Item 07: Exposed rebar on the roof.

Main Gate Building:

Item 08: Design report not available.

Item 09: Possible falling hazard.

Item 10: Stagnant water on the roof.

Utility Building:

Item 11: Design report not available.

Item 12: Lack of as-built structural drawing.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Design report not available. (Production Building)	Building engineer is required to prepare design report in compliance with section 1.9.1.1 and section 1.9.1.2 (part-6, BNBC).	6-weeks
02	Design report not available. (Production Building)	Implement the recommendation of the design report.	6-months
03	Crack observed on the façade wall and brick wall. (Production Building).	Building engineer is required to check the extent of the crack and suggest proper repair methodology in the investigation report.	6-weeks
04	Crack observed on the façade wall and brick wall. (Production Building).	Carry out suggested remedial works.	6-months
05	Connecting stair between production building & head office building. (Production Building).	Building engineer is required to prepare accurate as-built drawings, check the adequacy of the steel members, and connections, and suggest proper remedial actions.	6-weeks
06	Connecting stair between production building & head office building. (Production Building).	Carry out suggested remedial works.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
07	Stagnant water on the roof. (Production Building)	- Building engineer is required to develop a proper drainage system on the roof with adequate slope. - Repair the damp area as per the engineer's suggestion.	6-weeks
08	Design report not available. (Head Office Building)	Building engineer is required to prepare design report in compliance with section 1.9.1.1 and section 1.9.1.2 (part-6, BNBC).	6-weeks
09	Design report not available. (Head Office Building)	Implement the recommendation of the design report.	6-months
10	Stagnant water on the roof. (Head Office Building)	- Building engineer is required to develop a proper drainage system on the roof with adequate slope. - Repair the damp area as per the engineer's suggestion.	6-weeks
11	Exposed corroded rebar on the roof. (Head Office Building)	Building engineer is required to apply anti-corrosive paint on exposed rebar as per the engineer's guideline.	6-months
12	Design report not available. (Main Gate Building)	Building engineer is required to prepare design report in compliance with section 1.9.1.1 and section 1.9.1.2 (part-6, BNBC).	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
13	Design report not available. (Main Gate Building)	Implement the recommendation of the design report.	6-months
14	Possible falling hazard. (Main Gate Building)	Building engineer is required to provide the parapet wall surrounding the roof to avoid possible falling hazards.	6-weeks
15	Stagnant water on the roof. (Main Gate Building)	Building engineer is required to develop a proper drainage system on the roof with adequate slope.	6-weeks
16	Design report not available. (Utility Building)	Building engineer is required to prepare design report in compliance with section 1.9.1.1 and section 1.9.1.2 (part-6, BNBC).	6-weeks
17	Design report not available. (Utility Building)	Implement the recommendation of the design report.	6-months
18	Lack of as-built structural drawing. (Utility Building)	Building engineer is required to survey the structure and prepare as-built structural drawings.	6-weeks