

Jeans Manufacturing Co. Ltd (New location)

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(23.792031, 90.259013)

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Buildings Information

1. Building-1 (Production Building) (G+1)
2. Building-2 (Boiler Building) (G+1)
3. Building-3 (Cutting Building) (G+1)
4. Building-4 (Generator Building) (single storied)
5. Building-5 (Utility Building) (single storied)

Observations

Loose bracing

Some of the horizontal bracings were found loose. The factory is required to tight the bracings for transferring the lateral loads properly.



Loose rod bracing at roof



Loose rod bracing

**Non-Structural elements (Water tank & racks)
not adequately braced or anchored**

Some plastic tanks resting on the rooftop and racks on the ground floor are not adequately anchored or braced to resist earthquake forces.



Water tank



Racks at GF



Racks at GF

Exposed re-bar found

Observation: Utility Building



Exposed rebar of floors

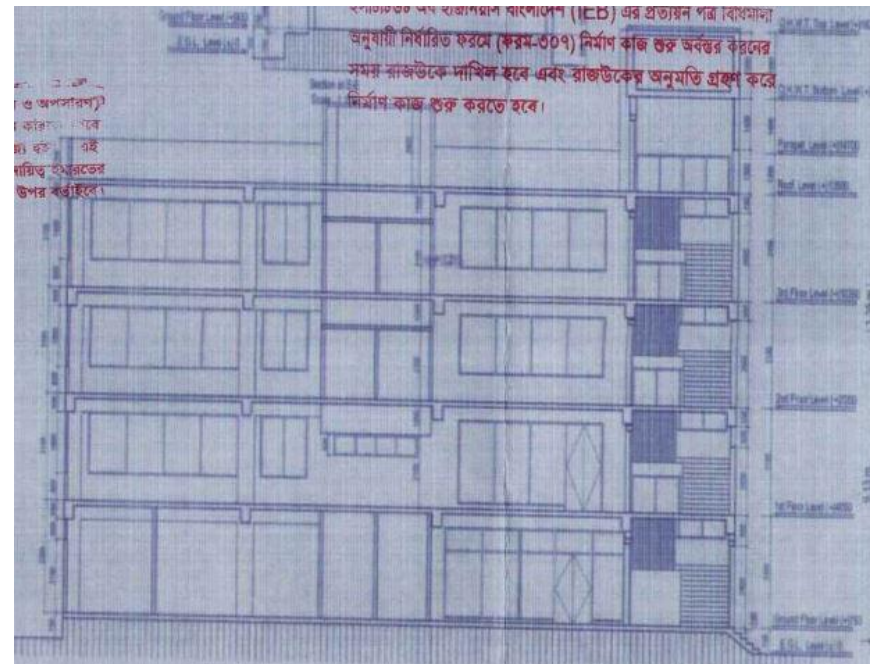
Exposed reinforcement was found extended from slab & beam. All exposed reinforcement is to be protected from corrosion which may cause degradation of the concrete. Factory engineer is required to take necessary measures to prevent the corrosion in exposed rebar.

Possible vertical and horizontal extension

Column & Slab reinforcements are exposed on roof and west side of structures. Moreover, this building is permitted for 4 (G+3) storied from local authority. Extension work may be carried out in the existing structure. Factory engineer is required to carry out a Detail Engineering Assessment considering BNBC provision prior to any further extension work.



Expose rebar



Permit Drawing

Problems Observed

Production Building:

Item 1: Loose cable bracing.

Cutting Building:

Item 2: Non-Structural elements (Water tank & racks) not adequately braced or anchored.

Utility Building:

Item 3: Exposed re-bar found

Item 4: Possible vertical and horizontal extension

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Loose bracing. (Production Building).	The building engineer to check the bracing and tighten it properly.	6-weeks
02	Non-Structural elements (Water tank & racks) not adequately braced or anchored. (Cutting Building)	Adequately anchor and brace all non-structural elements to resist earthquake forces to comply with the BNBC. If the tanks cannot be structurally accommodated, they should be removed.	6-weeks
03	Exposed re-bar found (Utility Building)	All exposed reinforcement is to be protected from corrosion which may cause degradation of the concrete.	6-weeks
04	Possible vertical and horizontal extension. (Utility Building)	Any extensions or modifications of the existing building, a Detail Engineering Assessment by a structural Engineer needs to be carryout in compliance with the BNBC provision.	6-months
05	Possible vertical and horizontal extension. (Utility Building)	Carry out remedial works from outcome of Detail Engineering Assessment where necessary before further construction.	6-months