

Concorde Garments Ltd (Extension)

M-3, Road-5, Section-7, Pallabi, Mirpur, Dhaka-1216.

(23.819867, 90.363548)

21 November 2023

Structural Inspection Report

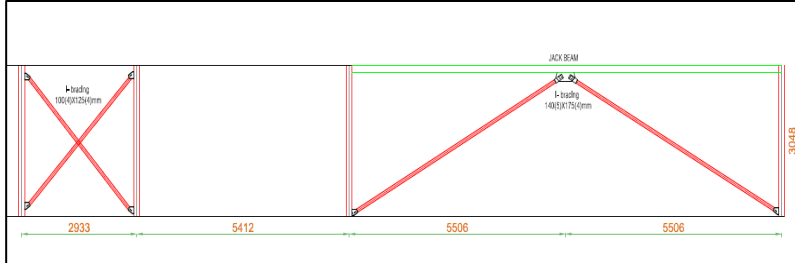


Building Information

1. **Utility Building:** 4 storied (B+G+3) RC structure.
2. **Warehouse:** Single storied prefabricated steel shed.

1. Observations:

Observation-1: Discrepancies (RC column instead of steel column) in as-built drawing. (Utility Building)



As per drawing, vertical steel bracing connected to steel column

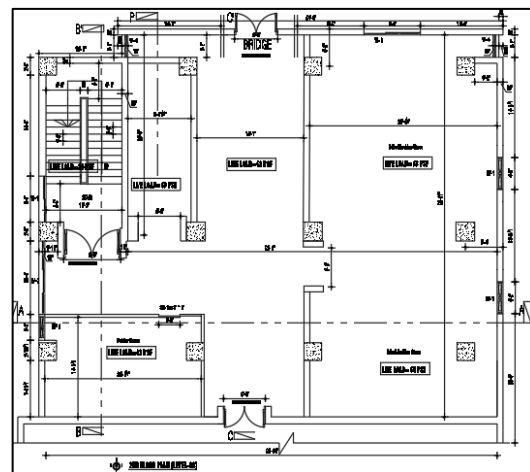
Vertical steel bracing connected to RC column.

Description: As per available as-built drawing, vertical steel bracing was shown connected to steel column. However, vertical steel bracing was observed connected to steel column in onsite condition. Building engineer is required to update as-built drawing incorporating all structural details of this Building considering existing condition.

Observation-2: Storage live load does not comply BNBC requirement. (Utility Building)

INDUSTRIAL STORAGE & HAZARDOUS (Occupancy - G, H & J)	Workshop, factory, warehouse	1 Light workroom without storage	3.0	2.7
		2 Machinery hall & circulation area	4.0	4.5
		3 Factory, workshop etc.	5.0	4.5
		4 Manufacturing : light	6.0	4.5
		heavy	12.0	9.0 ⁽⁵⁾
		ice	15.0	9.0 ⁽⁵⁾
		5 Printing plant :		
		Press room	7.0	11.0
		Composing and linotype room	5.0	9.0 ⁽⁵⁾
		Paper storage room	12.0	9.0 ⁽⁵⁾
		6 Motor room, fan room etc. including the weight of machinery	7.5	4.5
		7 Cold storage, grain storage	15.0	9.0 ⁽⁵⁾
		8 Storage warehouses : light	6.0	4.5 ⁽⁵⁾
		heavy	12.0	9.0
		9 Foundries	20.0	12.0

Live load table (BNBC part-6)



Prepared load plan on 3rd floor

Description: Live load on storage area of 2nd floor is considered as 3 kPa in prepared load plan. As per BNBC-2006, live load for light storage areas is required to be considered minimum 6 kPa. Therefore, the factory engineer is required to revise the load plan as per BNBC requirement and check the design accordingly.

Observation-3: Incomplete Lateral Stability System. (Warehouse Shed)



Missing compression strut along long direction

Description: Portal frame is provided along short direction. Wall and roof bracing was provided along long direction without compression strut along long direction. Therefore, lateral stability system along long direction is incomplete. The building engineer is required to check the lateral stability system of the structure and suggest necessary alternatives.

2. Action Plan:

Observation	Action Plan	Timeline
Discrepancies (RC column instead of steel column) in as-built drawing. (Utility Building)	Building engineer is required to update as-built drawing, structural analysis & design report as per on-site condition.	within 6 weeks
Storage live load does not comply BNBC requirement. (Utility Building)	Building engineer is required to revise the load plan as per BNBC requirement and check the design accordingly.	within 6 weeks
	Implement remediation work if required.	within 6 months
Incomplete Lateral Stability System. (Warehouse Shed)	The building engineer is required to check the lateral stability system of the structure and prepare design documents with necessary remedial action.	within 6 weeks
	Implement remediation work.	within 6 months