

Northern Fashion (Extension)

Plot 16-18 Dakkin Panishail, EPZ kaliakur road, Kashimpur, Gazipur, Dhaka
(23.991820, 90.257763)

27 November 2023



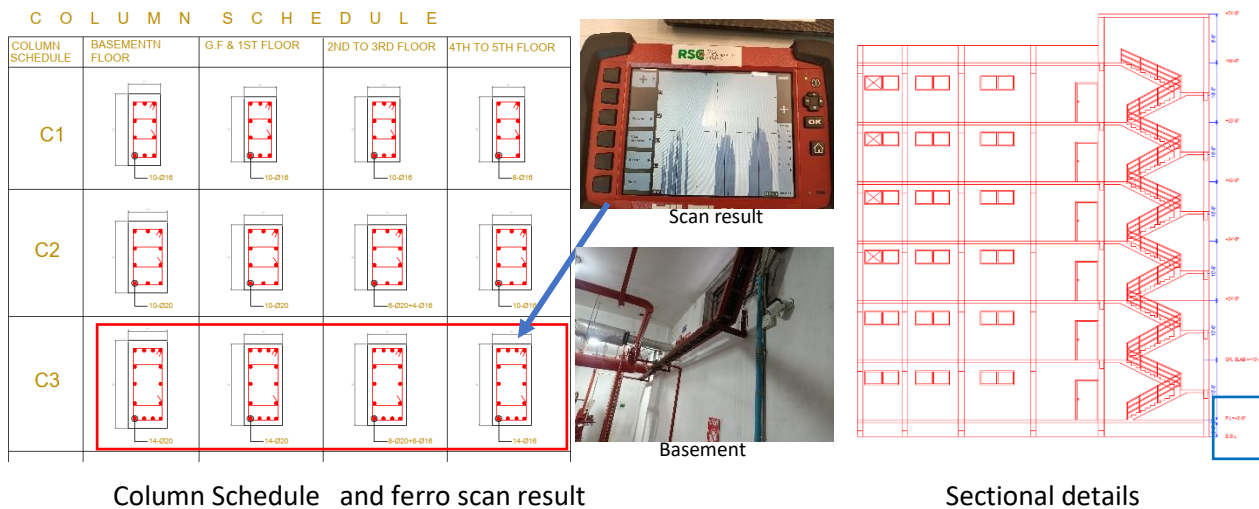
1. Building Information.

Building D (New Warehouse): Six storied (B+G+5) reinforced concrete building with a basement.

Building F (Office Store): Three storied (G+2) reinforced concrete building.

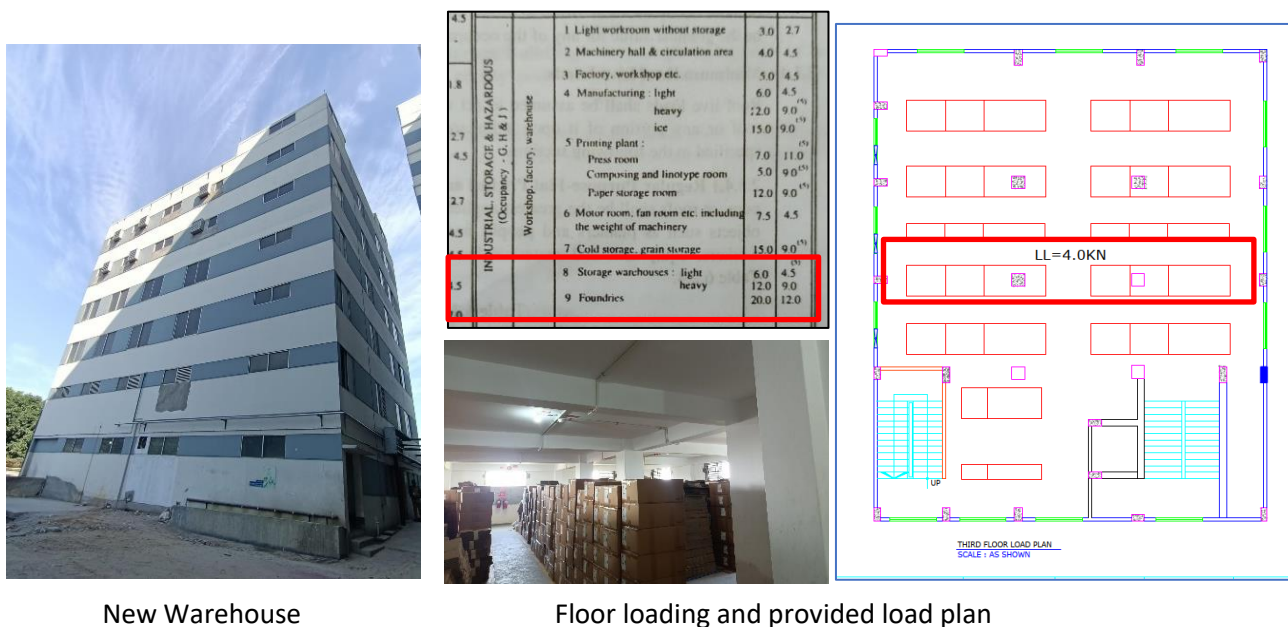
2. Observations:

Observation-01: Mismatch in as-built drawings. (Building-D: New Warehouse)



Description: During inspection, number of rebar at C3 type column not matched. 3 nos of rebars were found at short face instead of 4 nos. Moreover, in the sectional elevation basement floor has not been shown. Building engineer is required to update as-built drawing incorporating all the mismatches.

Observation-02: Prepared load plan does not comply with BNBC and absence of design documents.
(Building-D: New Warehouse)



Description: The building is being used for a warehouse/store. As per BNBC, the minimum floor live load for light storage is 6 kN/m² (125 psf). But as per the load plan, the allowable live load is 4 kN/m². In addition, the load plan has been prepared without having any structural analysis and design. The building engineer is required to prepare design documents based on in-situ material test result.

Observation-03: Non-structural elements not anchored or braced. (Building-D: New Warehouse)



Racks without anchorage



Racks without anchorage

Description: Some racks on floors are not anchored or braced to resist lateral (earthquake) forces. The factory is required to anchor/brace all non-structural elements adequately to resist earthquake forces.

A hand-drawn floor plan of a rectangular room. The dimensions are labeled as follows: the top wall is 4.5, the right wall is 2.5, the bottom wall is 4.8, and the left wall is 6.5. There are four doors, each represented by a small rectangle with an inward-pointing arrow. The doors are located on the top wall (left side), the right wall (top side), the bottom wall (right side), and the left wall (bottom side). A north arrow labeled 'N' with an upward-pointing arrow is located in the top right corner of the room.

[illegible]

3. Action Plan:

Observation	Action Plan	Timeline
Mismatch in as-built drawings. (Building-D: New Warehouse)	Building engineer is required to update as-built drawing incorporating all mismatches.	within 6 weeks
Prepared load plan does not comply with BNBC and absence of design documents. (Building-D: New Warehouse)	Building is required to prepare a set of design report in compliance with BNBC.	within 6 weeks
Prepared load plan does not comply with BNBC and absence of design documents. (Building-D: New Warehouse)	Verify in-situ material strength by taking core (min. 4 number 100 mm diameter) from lower tier columns.	within 6 weeks
Prepared load plan does not comply with BNBC and absence of design documents. (Building-D: New Warehouse)	The building engineer is required to revise the floor live load plan following BNBC storage live load requirement.	within 6 weeks
Prepared load plan does not comply with BNBC and absence of design documents. (Building-D: New Warehouse)	Implement remediation work if required.	within 6 months
Prepared load plan does not comply with BNBC and absence of design documents. (Building-D: New Warehouse)	Implement floor load plan.	within 6 months
Non-structural elements not anchored or braced. (Building-D: New Warehouse)	The factory is required to anchor/brace all non-structural elements adequately to resist earthquake forces.	within 6 weeks
Lack of as-built drawings. (Building-F: Office Store)	Building Engineer is to survey the whole structure and prepare as-built drawings (including foundation details) representing accurate site condition.	within 6 weeks
Absence of design documents. (Building-F: Office Store)	Building is required to prepare a set of design report in compliance with BNBC.	within 6 weeks
Absence of design documents. (Building-F: Office Store)	Verify in-situ material strength by taking core (min. 4 number 100 mm diameter) from lower tier columns.	within 6 weeks
Absence of design documents. (Building-F: Office Store)	Implement remediation work if required.	within 6 months
Corrosion on exposed rebars on roof. (Building-F: Office Store)	Factory is required to provide rust proof paint on exposed rebars to protect from corrosion.	within 6 weeks