

Crown Exclusive Wears Ltd. (Extended Building)

Mawna, Sreepur, Gazipur Bangladesh

(24.226909, 90.393805)

2nd December 2020



Building Information

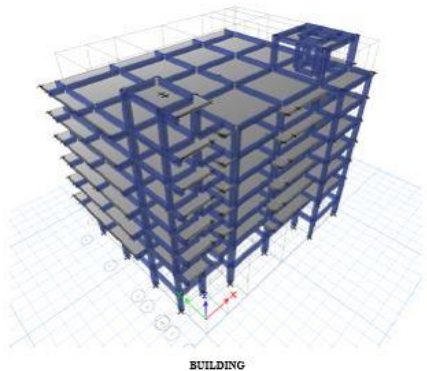
1. Factory Storage Building (G+5)

Observations

**Prepared design report not compliant with
BNBC**

Serviceability checks as per BNBC were not provided in the design report. Also, brick wall load was not assigned in FEM model. Building engineer is required to check the serviceability issues as per BNBC and incorporate proper loading assignment in the design report.

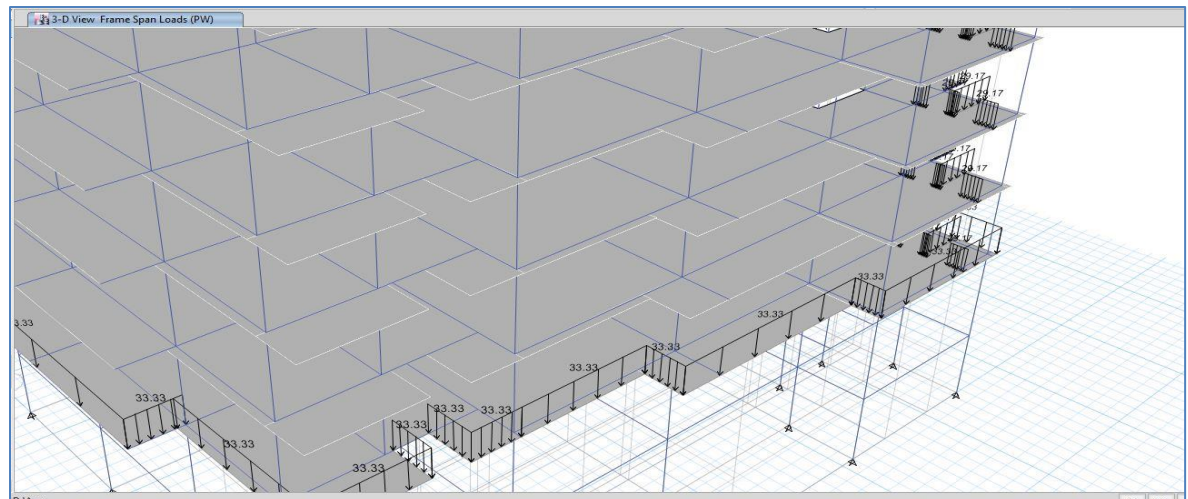
DETAIL STRUCTURAL ASSESSMENT OF EXISTING R.C.C. SIX STORIED FACTORY (STORAGE) BUILDING OF CROWN EXCLUSIVE LIMITED. AT J/L NO-05, UNION-MAOUNA, MOUZA-MAOUNA, P.S.-SREEPUR, DIST.-GAZIPUR, BANGLADESH.



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Design report

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.



Lack of information in as-built drawing of connection bridge



Connection bridge

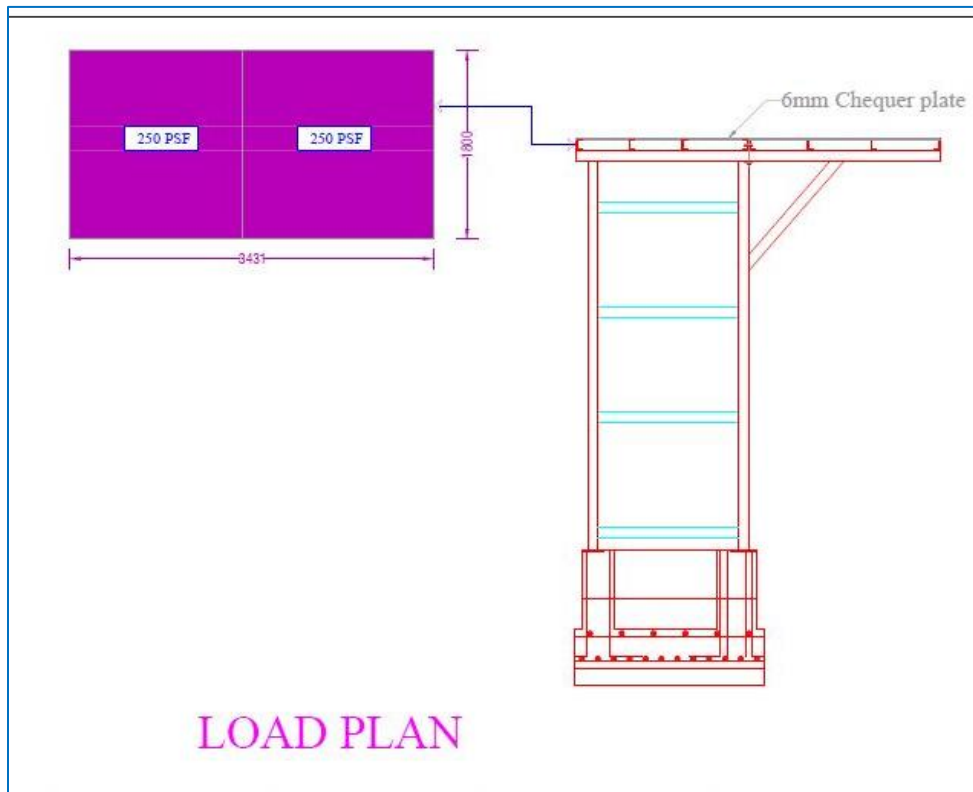
Connection details are not provided in as-built drawing of connection bridge. Building engineer is required to prepare proper as-built drawings.



Connection type

7 Observations: Connection bridge

**Prepared design report not compliant
with BNBC**



Load Plan

A set of load plan (considering 250 psf live load) has been prepared for the connecting bridge. But no deflection check and connection adequacy have been provided in the design report. Building engineer is required to check the serviceability issues as per BNBC and incorporate proper loading assignment in the design report.

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Problems Observed

Six-storied Factory Storage Building:

Item 1: Prepared design report not compliant with BNBC

Connection Bridge:

Item 2: Lack of information in as-built drawing of connection bridge.

Item 3: Prepared design report not compliant with BNBC

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Prepared design report not compliant with BNBC	Building engineer is required to check the serviceability issues as per BNBC and incorporate proper loading assignment in the design report.	6-weeks
02	Prepared design report not compliant with BNBC	Complete implementation of any remedial works deemed necessary by the design report.	6-months
03	Lack of information in as-built drawing of connection bridge.	Building engineer is required to prepare full set of as-built drawing including connection.	6-weeks
04	Design report required to be revised.	Building Engineer is required to incorporate the deflection check and connection adequacy in design report as per BNBC-2006.	6-weeks
05	Design report required to be revised.	Complete implementation of any remedial works deemed necessary by the design report.	6-months