

Parkstar Apparel Ltd. (Extension)

Kunia, K.B. Bazar, Gazipur Sadar, Gazipur.

(23.934727, 90.387032)

04th September 2023



Building Information

1. Six Storied Extension Building (G+5)

Observations

Design report needs to be updated

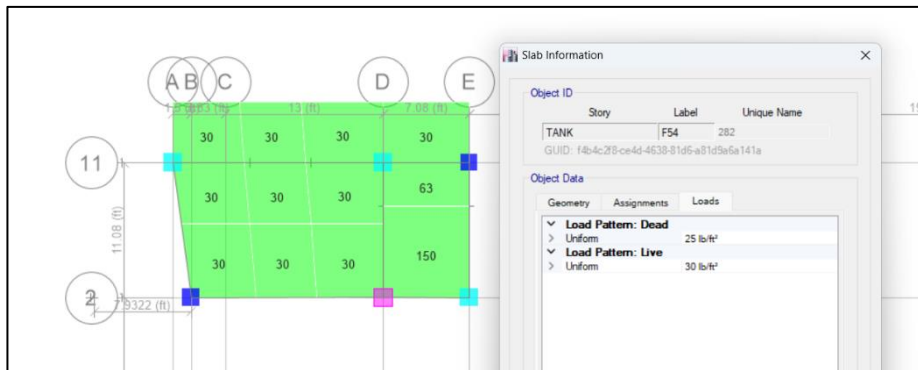
Observations: Six storied Extension Building



Overstress column in FEA model



Retrofitted steel beam



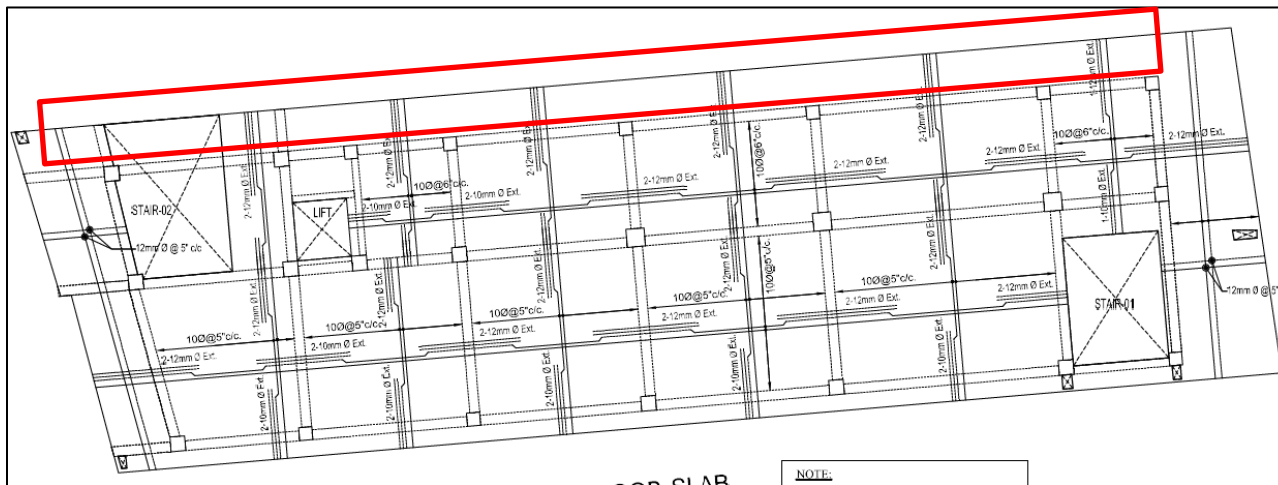
RC OHWT load not assigned in FEA

A Detail Engineering Assessment Report (DEA) was available on site which doesn't include any connection adequacy of retrofitted steel beams with RC columns. In FEA model RC OHWT load was not assigned, and some marginally overstressed columns were also observed. Building engineer is required to update the FEA model and design report by including the connection adequacy and other requirements as per BNBC.

Cracks on slab along the movement joints



Cracks on slab was observed along the movement joint between Seven storied RC Building and Six storied Extension Building.



Cracks on slab along the movement joints

Building engineer is required to check the gap between two buildings and provide necessary calculation in the design report. Investigate the type of filling material along movement joint and suggest necessary remediation accordingly.

Non-structural elements not anchored

Observation: Six storied Extension Building



Storage racks were found not anchored

Some steel storage racks on different floors were found non-anchored. Factory is required to anchor all non- structural elements within the factory to avoid falling hazard during seismic event.

Priority Actions

Problems Observed

Six storied Extension Building:

Item 01: Design report needs to be updated.

Item 02: Cracks on slab along the movement joints.

Item 03: Non-structural elements not anchored.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Design report needs to be updated. (Six storied Extension Building)	Building engineer is required to update the FEA model and design report including the connection adequacy and all requirements as per BNBC.	6-weeks
02	Design report needs to be updated. (Six storied Extension Building)	Implement remediation work if required.	6-months
03	Cracks on slab along the movement joints (Six storied Extension Building)	Building engineer is required to check the gap between two buildings and provide necessary calculation in the design report.	6-weeks
04	Cracks on slab along the movement joints (Six storied Extension Building)	Investigate the type of filling material along movement joint and suggest necessary remediation accordingly.	6-weeks
05	Non-structural elements not anchored (Six storied Extension Building)	Factory is required to anchor all non-structural elements within the factory premises.	6-weeks