

AMC Knit Composite Ltd. (Extension - 2)

Baiarchala, Memberbari, Gazipur sadar, Gazipur-1700

(24.160210, 90.410667)

4 May 2025

Structural Inspection Report

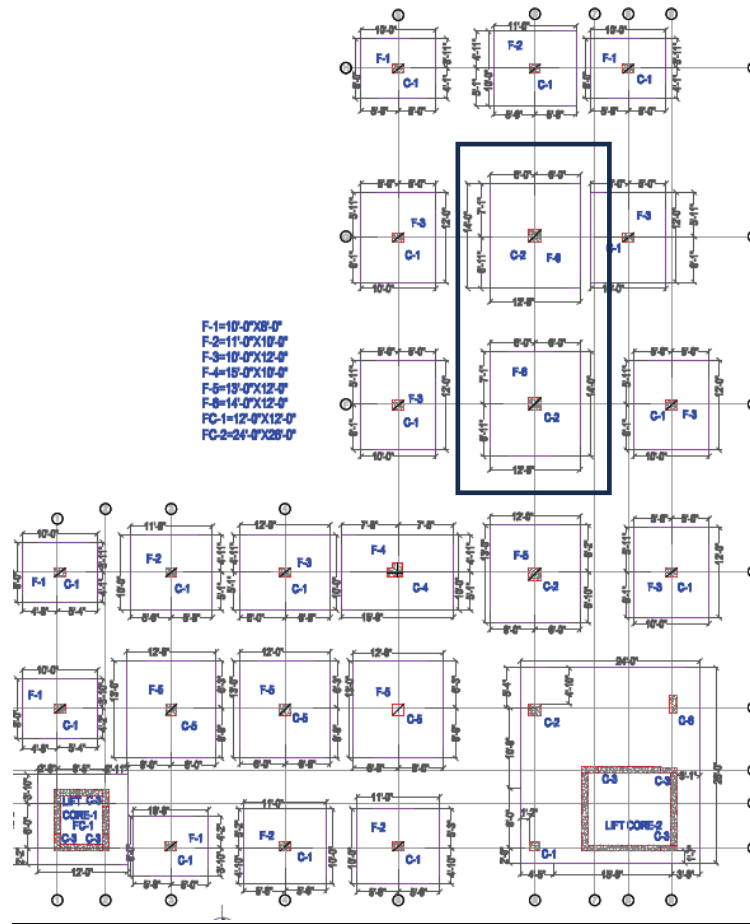


1. Building Information:

6 storied Chemical Building 6-storied (G+5) RC building.

Observation:

Observation 01: Marginally stressed above normal design limit in foundation (6-storied Chemical Building).



Description: cursory calculation indicates that stress in the foundation exceeds the normal design limit in the highlighted foundation (marked in the layout) for the 6-storied structure. At the time of inspection, design documents (design report, load plan, and adequate material test reports) were also unavailable.

Building engineer is required to perform in-situ material strength, review the design of the foundation stress and prepare a Detail Engineering Assessment (DEA) report with a proper remediation plan and submit to RSC for review.

Observation-02: Lack of as-built architectural drawings. (6 storied Chemical Building)



Description: During inspection, no architectural drawing was available on site.

The building engineer is required to survey the structure and prepare accurate as-built drawings reflecting on site condition.

Observation 03: Lack of approval drawing (6 storied Chemical Building).



Description: During inspection, no approval drawing was available for 6 storied Chemical Building. The building engineer is required to arrange necessary approval drawings for this structure from concern authority.

Observation 04: Water ponding on the roof lacks drainage system (6-storied Chemical Building).



Description: During inspection, water ponding was observed on the roof. The building engineer is required to provide water waterproofing layer on the roof and improve the drainage system.

Observation 05: Trolley impact and surface damage (6 storied Chemical Building).



Trolley impact and surface damage on columns

Description: Surface damage due to trolley impact was observed on some columns. The building engineer is required to provide column guard to protect from trolley impact.

1. Action Plan:

Item No	Observation	Action Plan	Timeline
1.	Marginally stressed is above the normal design limit in the foundation. (6 storied Chemical Building)	Verify in-situ concrete material strength by taking concrete cores (minimum 4 nos and 100 mm diameter) from lower-tier building columns.	within 6 weeks
2.		Building engineer is required to review, design of the foundation stress and prepare a Detail Engineering Assessment (DEA) report with proper remediation plan and submit to RSC for review.	within 6 weeks
3.		Produce and actively manage a loading plan for all floor plates, considering floor, column and foundation capacity.	within 6 weeks
4.		Carry out remedial work if required.	within 6 months
5.	Lack of as-built architectural drawings. (6 storied Chemical Building)	The building engineer is required to survey the structure and prepare accurate as-built drawings reflecting on on-site condition.	within 6 weeks
6.	Lack of approval drawing (6 storied Chemical Building).	The building engineer is required to arrange the necessary approval drawings for this structure from the concerned authority.	within 6 months
7.	Water ponding on the roof lacks a drainage system (6-storied Chemical Building).	The building engineer is required to provide water waterproofing layer on the roof and improve the drainage system.	within 6 months
8.	Trolley impact and surface damage (Production & Utility Building).	The building engineer is required to provide column guard to protect from trolley impact.	within 6 months

Survey Limitations and Assumptions

This report is for the private and confidential use of RSC for whom it was prepared together with their professional advisors as appropriate. It should not be reproduced as a whole or in part or relied upon by third parties for any use without the express written permission of RSC.

This report can be used in discussion with the supplier or factory owner as a means to rectify or address any observations made. The report is not comprehensive and is limited to what could be observed during a visual inspection of the building.

This Report is not intended to be treated as a generalized inspection and does not cover the deterioration of structural members through dampness, fungal or insect attack, nor does it deal with problems and defects of a non-structural nature. Other non-structural aspects of the building such as fire safety have not been assessed in this survey.

Except as otherwise noted, drains and other services were not viewed or tested during our inspection and are therefore similarly excluded from this Report. We have not inspected any parts of the structure which are covered, unexposed or inaccessible and we are therefore unable to report that any such part of the property is free from defect.

External inspection of the façade walls has generally been carried out from ground level only by visual sighting. No opening-up works were carried out (except as noted) and we rely on the Architect's and Engineer's drawings provided for us for our views on concealed parts of the structure and in particular foundations. The strengths of materials and components are untested, and we recommend that the factory owners' Building Engineer carry out in situ testing over and above those suggested to satisfy themselves with the material strengths and component details.

Recommendations, where given, are to provide indicative advice only, are not exhaustive, relate solely to identifying key and obvious structural defects as identified in this presentation, and do not take the form of or constitute a specification for works. We take no responsibility for the construction. This report does not interfere with the factory owner's Building Engineers responsibility for the structural performance of this building, The Building Engineer remains fully responsible for the structural adequacy of the building.

This report does not comment in detail on the future seismic performance of the building and only highlights the fact that the building may experience significant damage or collapse in a seismic event along with many others in the Dhaka region.

The observations in this report are based on the Engineering Judgement of the lead surveyor/engineer at the time of the survey. We assume in making these observations that no covering up of faults defects, filling or plastering over cracking or significant repair work has been carried out by the building owner. Any future alteration or additional work by the building owner will void this report.