

Square Apparels Limited (Extension)

Mamarishpur, Mallikbari, Bhaluka, Mymensingh

(24.379245, 90.369336)

25 April 2024

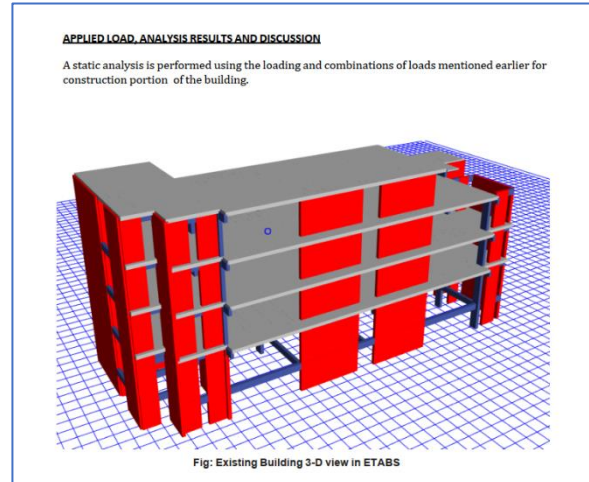
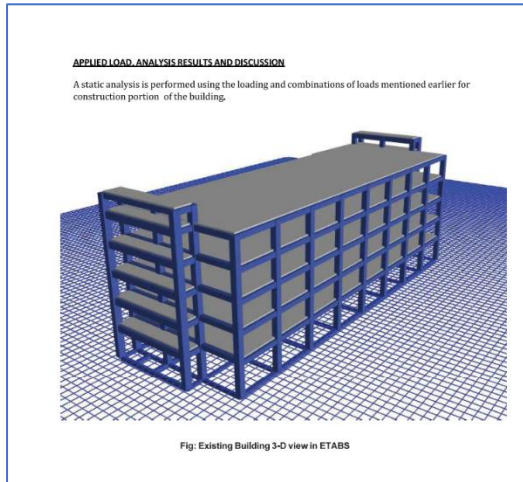


1. Building Information

- a) Building – 2 (Warehouse Building) (G+4)
- b) Building – 3 (Administration Building) (Partially G+3)
- c) Building – 9 (RMS Room & Gate House Building) (Single Storied)
- d) and Building – 10 (Cooling Tower Building) (Single Storied)

2. Observations

Observation-1: The design report required to be reviewed against lateral loading in detail. (Warehouse Building, Administration Building)



Description: A design report has been prepared for the five-storied Warehouse Building and partially four-storied Administration Building. The structural design report needs to be reviewed against lateral loading.

Observation-2: Falling hazard risk. (Warehouse Building, Administration Building)



Warehouse Building



Administration Building

Description: Falling hazard risk was observed on different floors of the Warehouse Building and Administration Building. The building engineer is required to provide sufficient protection/barrier to mitigate the risk

Observation-3: Unbraced storage racks. (Warehouse Building)



Description: Unbraced storage racks were found on different floors. The factory needs to brace/anchor all storage racks to avoid falling hazards during earthquake.

Observation-4: Large cantilever on 1st floor. (Administration Building)



Description: Almost a 3 m large cantilever was found on the 1st floor of the building. The building engineer is required to check the adequacy & deflection limit of the cantilever slab.

Observation-5: Corrosion on exposed reinforcement. (Administration Building)



Description: Corrosion was observed on exposed rebars on the column. The building engineer is required to provide rust-proof coating on exposed rebars to protect from corrosion.

Observation-6: Inadequate connection on lightweight stair roof against uplift forces. (Administration Building)



Description: An inadequate connection was observed on the lightweight stair roof. The building engineer is required to check the connection adequacy of the lightweight roof against the uplift pressure of the wind. Also, suggest suitable repair methods.

3. Action Plan:

Observation	Action Plan	Timeline
The design report to be reviewed against lateral loading in detail. (Warehouse Building)	Submit the prepared design documents to the RSC for detailed review against lateral forces following BNBC 2006.	within 6 weeks
	Carry out remedial work if required.	within 6 months
	Implement floor load plan.	within 6 months
Falling hazard risk. (Warehouse Building)	The building engineer is required to provide sufficient protection/barrier to mitigate the risk	within 6 weeks
Falling hazard risk. (Administration Building)	The building engineer is required to provide sufficient protection/barrier to mitigate the risk	within 6 weeks
Unbraced storage racks (Warehouse Building)	Factory needs to brace/anchor all storage racks to avoid falling hazards during lateral loading.	within 6 months
The design report to be reviewed against lateral loading in detail. (Administration Building)	Submit the prepared design documents to the RSC for detailed review against lateral forces following BNBC 2020.	within 6 weeks
	Carry out remedial work if required.	within 6 months
	Implement floor load plan.	within 6 months
Large cantilever on 1 st floor. (Administration Building)	The building engineer is required to check the adequacy & deflection limit of the cantilever slab.	within 6 weeks
Corrosion on exposed reinforcement. (Administration Building)	The building engineer is required to provide rust-proof coating on exposed rebars to protect from corrosion.	within 6 weeks
Inadequate connection on lightweight stair roof for uplift forces. (Administration Building)	The building engineer is required to check the connection adequacy of the lightweight roof against the uplift pressure of the wind. Also, suggest suitable repair methods.	within 6 weeks
	Carry out remedial work if required.	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.