

GMS Textiles Ltd. (Extension)

Tansutrapur, Kaliakoir, Gazipur

(24.08700, 90.19496)

14 November 2023



1. Building Information

Dyeing Building -02: Three (G+M+2) storied RC building with two mezzanines inside the ground floor.

Chemical Building: Six (G+5) storied RC building.

Mechanical workshop: Single-storied prefabricated steel shed.

2. Observations

Observation-1: Lack of design report (Dyeing Building -02).



Description: 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 documents shall include as-built drawings and a design report which shall be prepared in compliance with section 1.9.1, part-6 of BNBC.

During inspection, the design report was not available on site. The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and submit it to RSC for review.

Observation-2: Discrepancies in as-built drawings (Dyeing Building -02).



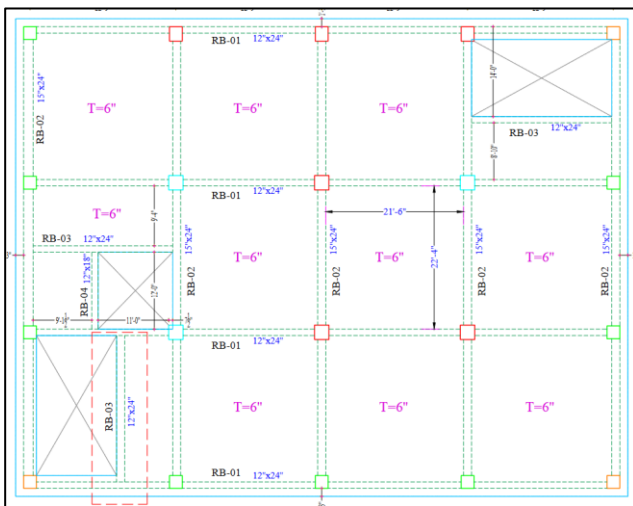
Description: During the inspection, mismatches were found between the onsite condition and the as-built drawing. On-site, 337 mm build-up was found in the toilet zone which is not mentioned in the drawing. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-3: Dampness on cantilever slab. (Dyeing Building -02)



Description: Dampness found on the cantilever slab of the mezzanine floor. The building engineer is required to identify the source of dampness, and take remedial measures to repair the slab accordingly.

Observation-4: Lack of information in as-built drawing. (Chemical Building)



Typical Floor beam layout plan



Rooftop level

Description: During the inspection, only a typical floor slab and beam layout plan was provided in the available as-built structural drawing. However, no slab and beam details for rooftop structures were provided. The building engineer is required to update the as-built drawing incorporating all structural details of this Building.

Observation-5: Absence of design documents. (Chemical Building)



Chemical Building

Description: 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. At the time of inspection, design report was not available which is required to be prepared in compliance with BNBC 2020.

Observation-6: Unbraced nonstructural elements. (Chemical Building)



Unbraced PVC tank on the roof



Unbraced storage racks on floors

Description: During inspection, an unbraced PVC tank on the roof and storage racks on different floors were observed. The building engineer is required to brace/anchor all nonstructural elements to avoid falling hazards during lateral loading.

Observation-7: Lack of information in as-built drawing. (Mechanical workshop)



Description: During the inspection, no foundation details for the Mechanical workshop were provided in the available as-built structural drawing. The building engineer is required to update the as-built drawing incorporating all structural details of this Building.

3. Action Plan

Observation	Action Plan	Timeline
Lack of design report. (Dyeing Building -02)	The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and submit it to RSC for review.	within 6 weeks
Lack of design report. (Dyeing Building -02)	Carry out suggested remedial works if required.	within 6 months
Discrepancies in as-built drawings. (Dyeing Building - 02)	The building engineer is required to survey the full structure and produce accurate as-built drawings	within 6 weeks
Dampness on cantilever slab. (Dyeing Building -02)	The building engineer is required to identify the source of dampness and take remedial measures to repair the slab accordingly.	within 6 weeks
Lack of information in as-built drawing. (Chemical Building)	The building engineer is required to survey the full structure and produce accurate as-built drawings	within 6 weeks
Lack of design report. (Chemical Building)	The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and submit it to RSC for review.	within 6 weeks
Lack of design report. (Chemical Building)	Carry out suggested remedial works if required.	within 6 months
Unbraced nonstructural elements. (Chemical Building)	Building engineer is required to brace/anchor all nonstructural elements to avoid falling hazards during lateral loading.	within 6 weeks
Lack of information in as-built drawing. (Mechanical workshop)	The building engineer is required to survey the full structure and produce accurate as-built drawings	within 6 weeks