

# Anowara Knit Composite Ltd. (10925)

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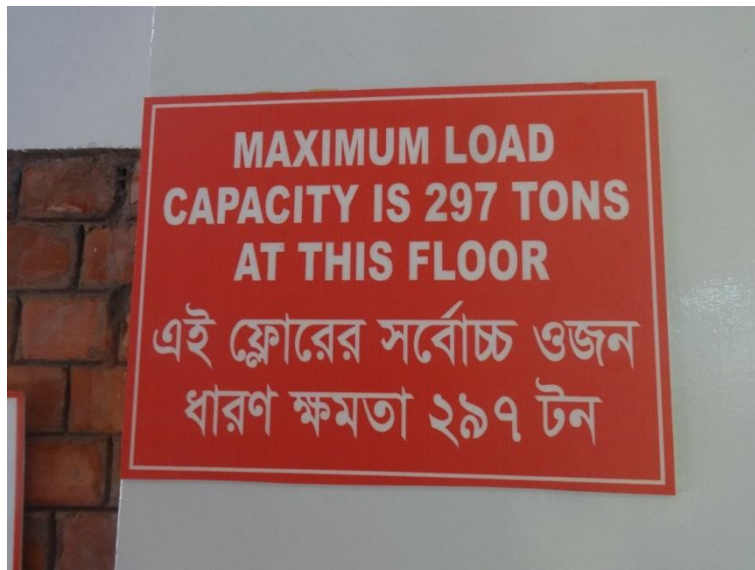
ACCORD  
on Fire and Building Safety in Bangladesh



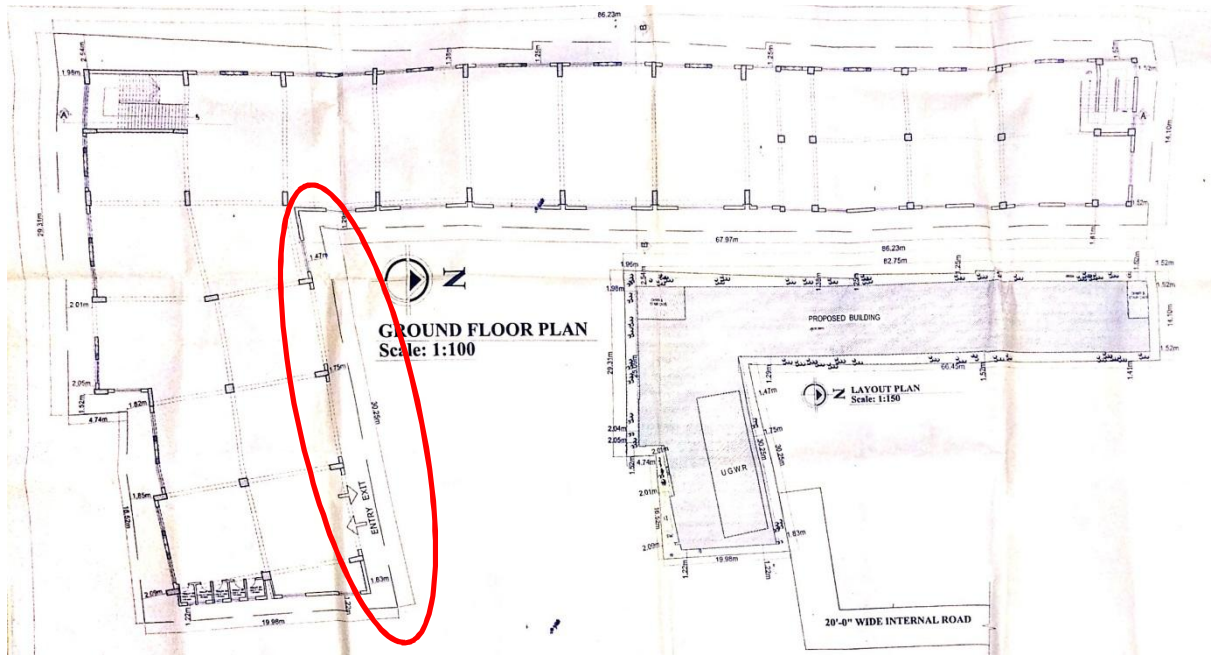
## Identified Priority 1 Concerns

1<sup>st</sup> Priority 1  
Concern

High storage loads were observed in buildings 6 & 7. In addition, no loading plans were made available for any of the buildings.



Maximum total floor loading was posted on a few levels, however the information displayed was not in a format that could be easily managed. In addition, this maximum loading was exceeded in building 6.



## 2<sup>nd</sup> Priority 1 Concern

5.5m cantilevered slab not shown on the drawing.  
Backspan and beams do not appear adequate for the span.



## Identified Priority 2 Concerns

## Priority 2 Concern

Openings to masonry partition wall in building 2 are not formed correctly.



## Priority 2 Concern

A steel plate covering old water storage tanks at building 6 appears inadequate. Large deflection was noted. In addition storage is loaded on the plate.



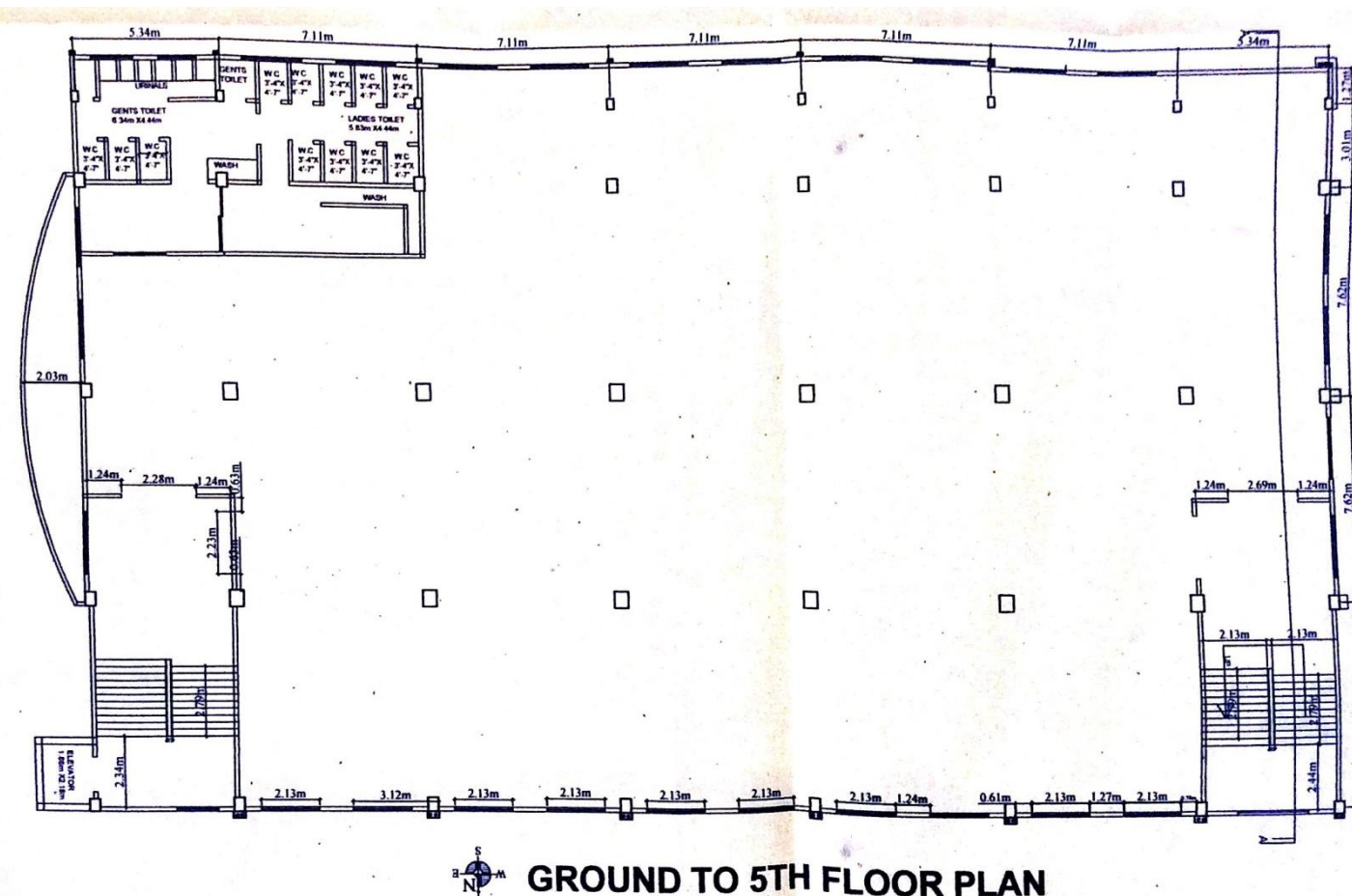
## Priority 2 Concern

Hairline cracking to columns and walls was observed in old water reservoir at building 6.



# Overall Stability System

## Building 2: Main Factory



The building did not feature any core or shear walls. Stability was achieved through sway action between beams and columns and masonry infill walls.

We require that these items be investigated in a Detailed Engineering Assessment.

## Water Ingress at Roof Level



No waterproofing membrane was visible on the roof of the building. This means that any cracks in the surface finishes on the roof will allow water to seep into the concrete slab beneath the finishes, and cause long-term soaking of the slab.

## Priority Actions

## **Problems Observed Summary**

**ITEM 1: Storage of materials in buildings 6 & 7, and no loading plans produced for any buildings.**

**ITEM 2: 5.5 meter cantilevered slab at building 5 not shown on drawings.**

**ITEM 3: Structural drawings do not match as built condition for buildings 1, 2, 5, 6, 7, and 9.**

**ITEM 4: Openings to masonry partition wall in building 2 are not formed correctly.**

**ITEM 5: Steel plate over old water tanks in building 6.**

**ITEM 6: Cracking to old water tank in building 6.**

## Item 1 and actions

Storage of materials in buildings 6 & 7, coupled with no loading plans.

### Priority 1 (Immediate – Now)

- Remove all storage down to 3.0 kPa.

### Priority 2 (within 6 – weeks)

- Carry out an Engineering Assessment on the buildings to determine capacity of floors.
- Produce loading plans in pounds per square foot (psf) format for each building.
- Manage loading plans.

### Priority 3 (within 6-months)

- Not applicable

## Item 2 and actions

Large cantilevered slab in building 5 has not been built in accordance with the construction drawings.

### Priority 1 (Immediate – Now)

- Remove all loading on the cantilever and close access under the cantilever.

### Priority 2 (within 6 – weeks)

- Carry out a Detailed Engineering Assessment of the cantilever to determine its structural capacity.

### Priority 3 (within 6-months)

- Carry out any remedial works highlighted from engineering assessment.

## Item 3 and actions

As built drawings have been produced for most buildings, and many of these have incorrect grid dimensions. Most of the detailed information (rebar, foundation sizes, etc.) appears to be reverse engineered and therefore inaccurate.

### Priority 1 (Immediate – Now)

- Withdraw all current structural drawings.

### Priority 2 (within 6 – weeks)

- Survey buildings and produce as built drawings based on existing known conditions.

### Priority 3 (within 6-months)

- Not applicable

## Item 4 and actions

Openings to masonry partition wall in building 2 are not formed correctly.

### Priority 1 (Immediate – Now)

- Not applicable

### Priority 2 (within 6 – weeks)

- Infill existing openings.
- If new openings are to be formed lintels and piers should be provided.

### Priority 3 (within 6-months)

- Not applicable

## Item 5 and actions

A steel plate covering old water storage tanks at building 6 appears inadequate. Large deflection was noted. In addition storage is loaded on the plate.

### Priority 1 (Immediate – Now)

- Not applicable

### Priority 2 (within 6 – weeks)

- Carry out Engineering Assessment on steel plate to determine load carrying capacity.

### Priority 3 (within 6-months)

- Carry out any recommendations highlighted in Engineering Assessment.

## Item 6 and actions

Hairline cracking to columns and walls was observed in old water reservoir at building 6.

### Priority 1 (Immediate – Now)

- Not applicable

### Priority 2 (within 6 – weeks)

- Ensure tank is kept empty.

### Priority 3 (within 6-months)

- Repair or remove the tank.