

# SATURN TEXTILES Ltd. (10936)

13/1, Abdus Sattar Master Road, West Gazipura, Tongi, Gazipur  
(+23.920873N, 90.392274E)

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# Identified Priority 1 Concerns

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



Column are highly stressed. All storage and floor loads must be immediately reduces to 2,0 kPa.

# Identified Priority 2 Concerns

1<sup>st</sup> priority 2 concern



Uncontrolled storage area on several levels. No loading plans exist.

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



Six (6) 5000 L water tanks in close proximity on the roof.

# Identified Priority 3 Concerns

## 1<sup>st</sup> Priority 3 Concern



No fireproofing material was noted on structural steel elements of the mezzanine.



# Overall Stability System



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 Detail 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 corrosion of the reinforcing steel.

# Priority Actions

## Problems Observed Summary

**ITEM 1: (1<sup>st</sup> Priority 1) Highly stressed columns**

**ITEM 2: (1<sup>st</sup> Priority 2) Uncontrolled storage and no loading plans.**

**ITEM 3: (2<sup>nd</sup> Priority 2) Six (6) 5000 L water tanks in close proximity on the roof**

**ITEM 4: (1<sup>st</sup> Priority 3) No fireproofing on mezzanine steel structure**

**ITEM 5: Overall stability system**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 1 - Highly stressed columns	Carry out a Detailed Engineering Assessment to review the actual column capacity.	Immediate – Now
2	1st Priority 1 - Highly stressed columns	Carry out Detailed Engineering Assessment recommendations.	6-weeks
3	1st Priority 2 - Uncontrolled storage and no loading plans.	Carry out an Engineering Assessment to obtain loading plans for all floors of the building.	6-weeks
4	1st Priority 2 - Uncontrolled storage and no loading plans.	Carry out Engineering Assessment recommendations. Maximum loading in all loading area should be clearly identify.	6-months
5	2nd Priority 2 - Six (6) 5000 L water tanks in close proximity on the roof.	Carry out an Engineering Assessment to verify if the roof is capable of supporting the water tanks.	6-weeks
6	2nd Priority 2 - Six (6) 5000 L water tanks in close proximity on the roof.	Carry out Engineering Assessment recommendations.	6-months
7	1st Priority 3 - No fireproofing on mezzanine steel structure	Fireproofing material for structural steel element is recommended as suggested in BNBC Codes. Maintain standard of quality control and protection of the fire protection.	6-months
8	Overall stability system	Carry out engineering assessment on the building and mezzanines to verify that it is stable under lateral loading as per BNBC seismic and wind load provisions.	6-weeks
9	Overall stability system	Carry out recommendations of engineering assessment.	6-months