

Apparels Express Ltd. (11637)

Baranda, Kashimpur, 1346, Gazipur.

(+ 23.983071N, 90.306520 E)

01.07.2014



Identified Priority 1 Concerns

Not applicable

Identified Priority 2 Concerns

Beams were missing in the Ground Floor & 1st Floor

1st Priority 2 Concern



Some beams were missing in the Ground Floor & 1st floor of the main factory.

Identified Priority 3 Concerns

Poorly design steel roof of the staircase (Main Building)
and Security Room

1st Priority 3 Concern



Poorly design steel roof of the staircase and Security Room

No documentations were provided regarding these structures.

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 : (1st Priority 2) Beams were missing in the Ground Floor & 1st floor**
- ITEM 2 : (1st Priority 3) Poorly design steel roof of the staircase (Main Building) and Security Room**
- ITEM 3 : The buildings does not have any obvious lateral stability system.**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 2 - Beams were missing in the Ground Floor & 1st floor.	Carry out an Engineering Assessment to verify slabs capacity.	6-weeks
2	1st Priority 2 - Beams were missing in the Ground Floor & 1st floor.	Carry out any recommendations from the Engineering Assessment. Update structural drawing.	6-months
3	1st Priority 3 - Poorly design steel roof of the staircase (Main Building) and Security Room	Factory Engineer to review the steel roof structure and connections against uplift loads as per BNBC.	6-weeks
4	1st Priority 3 - Poorly design steel roof of the staircase (Main Building) and Security Room	Implement any strengthening recommended by Factory Engineer. Produce as-built drawing for auxiliary buildings.	6-months
5	The buildings does not have any obvious lateral stability system.	Carry out engineering assessment on the building to verify that it is stable under lateral loading as per BNBC.	6-weeks
6	The buildings does not have any obvious lateral stability system.	Carry out recommendations of engineering assessment.	6-months