Meek Sweater Ltd. (9857)

Noor Complex, R S Dag No.26,Aouchpara, Tongi, Gazipur,Bangladesh

19.May.2014

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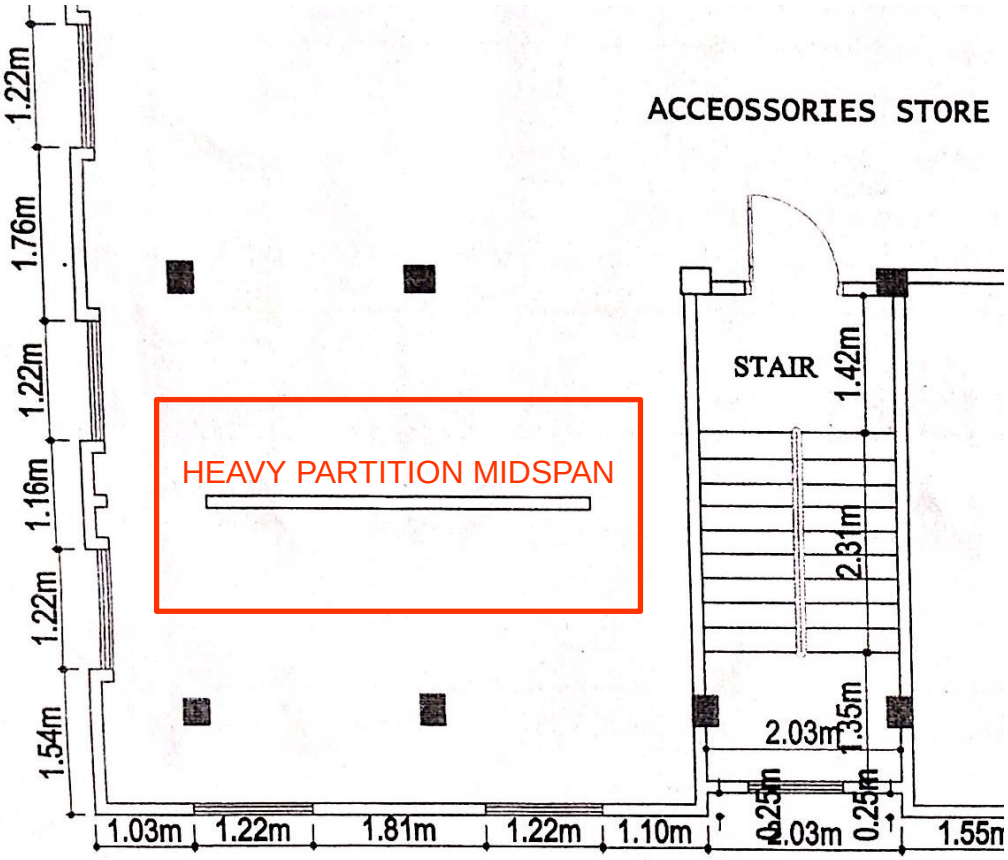
Identified Priority 1 Concerns

None

Identified Priority 2 Concerns

Heavy partition load midspan in the 4 storey building



1st Priority 2 Concern

During our survey of the 4 storey R.C building, we confirmed the existence of a full height brick wall with 2 layers of thick plaster. In the wall, there were some integrated brick columns.

We are concerned that load from the partition wall combined with the occupation load may be more than the design load of the slab.

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Identified Priority 3 Concerns

Flimsy steel roofing for sheds at roof.

1st Priority 3 Concern

At roof level, multiple sheds have poorly constructed roofing. In a high wind or seismic situation the roofs would be at risk of collapse. They should be reinforced, strengthened or removed to prevent them from being a danger.

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Overall Stability System

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Sway stability of buildings could probably be expected from rigid frame system (beam and column participation) although no ductile detailing is provided in structural drawings. Masonry infill is unrestrained and should not be considered.

We require that these items be investigated in a Detail Engineering Assessment

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Water Ingress at Roof Level

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No waterproofing membrane was visible on the roofs. This means that any cracks in the surface will allow water to seep into the concrete slab and cause long-term soaking of the slab leading to corrosion of the reinforcement and deterioration of the brick chip concrete.

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Priority Actions

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Problems Observed Summary

ITEM 1: Priority 2 - Heavy partition load midspan (2nd floor) in the 4 storey building

ITEM 2: Priority 3 - Flimsy steel roofing for sheds at roof

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Heavy partition load midspan (2nd floor) in the 4 storey building	Limit storage in this span at every floor.	Immediate – Now
2	Heavy partition load midspan (2nd floor) in the 4 storey building	Consider replacing the heavy brick partition with a light weight alternative or have the Factory Engineer assess the capacity of the slab and validate that is can support the additional dead load imposed by the heavy partition.	6-weeks
3	Flimsy steel roofing for sheds at roof	Limit access to sheds	Immediate – Now
4	Flimsy steel roofing for sheds at roof	Have factory engineer assess the structural elements of the flimsy roofs.	6-weeks
5	Flimsy steel roofing for sheds at roof	Reinforce, strengthen or remove the flimsy roofing to prevent them from being a danger.	6-months