# Harry Fashion Ltd. (9690)

Voradoba, Valuka, Mymensing

(+24.456369N, 90.384650E)

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# Identified Priority 1 Concerns

Priority 1 Concern

BH-1 & BH-2 For 6-Storied Building

The foundation of the Building (Individual column footing) may be provided at a depth of 5 feet from existing ground level.The allowable bearing capacity of soil at the recommended depth to be considered as 1.00 tsf.

According to soil test report, allowable bearing capacity of foundation is 1 tsf and for that reason footing size should be about 180 sft. However, in foundation design footing size is less than 180 sft which is the main concern for this building

Do not construct any further buildings connected to the existing factory, without thorough structural design and full building approval.

**Typical footings are under designed as per soil test and as-built components**

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# Identified Priority 2 Concerns

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Priority 2 Concern

Based on the load rundown analysis with the agreed minimum design live load assignment, the typical columns have been found to possess loading capacity with a very low factor of safety, giving a AMBER warning. The building was constructed after 2005, with stone aggregate.

**Column have low factor of safety**

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# Identified Priority 3 Concerns

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1st Priority 3 Concern

No boundary wall is provided on the edge beside dining shed on roof. That is very dangerous for workers from falling down

**No boundary wall on roof besides dining shed**

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2nd Priority 3 Concern

Steel shed membrane was torn apart in some places so clear sign of leakage of water is observed. In rainy season water comes into through this area.

**Sign of water leakage through steel shed membrane**

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3rd Priority 3 Concern

At main entrance of the building tiles are dropping down. That can cause accidence while workers/people get in the building.

**Tiles dropping down from main entrance of the building could injury the people**

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# Water Ingress at Roof Level

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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.

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# Priority Actions

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# Problems Observed Summary

**ITEM 1: (1st Priority 1) Typical footings have been under designed**

**ITEM 2: (1st Priority 2) Typical columns have low factor of safety**

**ITEM 3: (1st Priority 3) No boundary wall on roof besides dining shed**

**ITEM 4: (2nd Priority 3) Sign of water leakage through steel shed membrane**

**ITEM 5: (3rd Priority 3) Tiles dropping down from main entrance of the building**

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| Item No. | Observation | Recommended Action Plan | Recommended Timeline |
|---|---|---|---|
| 1 | 1st Priority 1 - Typical footings have been under designed. | The Factory's Building Structural Engineer should carry out a Detailed Engineering Assessment to check the capacity of the building in its existing state. | 6-weeks |
| 2 | 1st Priority 1 - Typical footings have been under designed. | As per results of DEA, factory engineer is to provide the strengthening work for foundation system | 6-months |
| 3 | 1st Priority 2 - Typical columns have low factor of safety. | Factory engineer to review design, loads and column stresses | Immediate – Now |
| 4 | 1st Priority 2 - Typical columns have low factor of safety. | Conduct a detailed engineering assessment | 6-weeks |
| 5 | 1st Priority 2 - Typical columns have low factor of safety. | Carry out any recommendations put forth by the detailed engineering assessment. | 6-months |
| 6 | 1st Priority 3 - No boundary wall on roof besides dining shed | Construct boundary wall for this area | 6-months |
| 7 | 2nd Priority 3 - Sign of water leakage through steel shed membrane | Repair membrane of steel shed | 6-months |
| 8 | 3rd Priority 3 - Tiles dropping down from main entrance of the building. | Conduct repairing work using cementing strong material and build a false roof on entrance gate. | 6-months |