

Russel Apparels and Ekram Sweaters Ltd.

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(24.380522,90.377870)
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Observations

Non-Permitted Additions at East Side of Factory Building

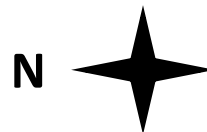
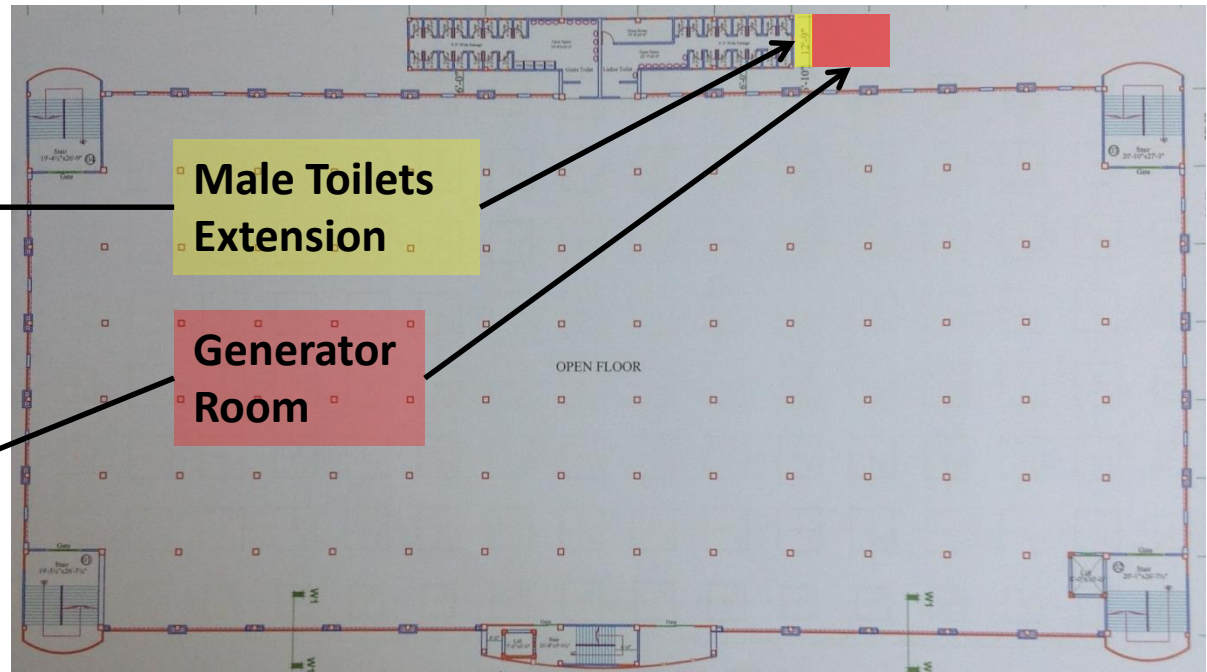


Single-storey generator room

A single-storey generator room has been added to the east side of the building next to the toilets although no permit was provided. Also, construction is on-going for an extension to the male toilets, and no permit was available.



Non-permitted additions



Unfinished Male Toilets



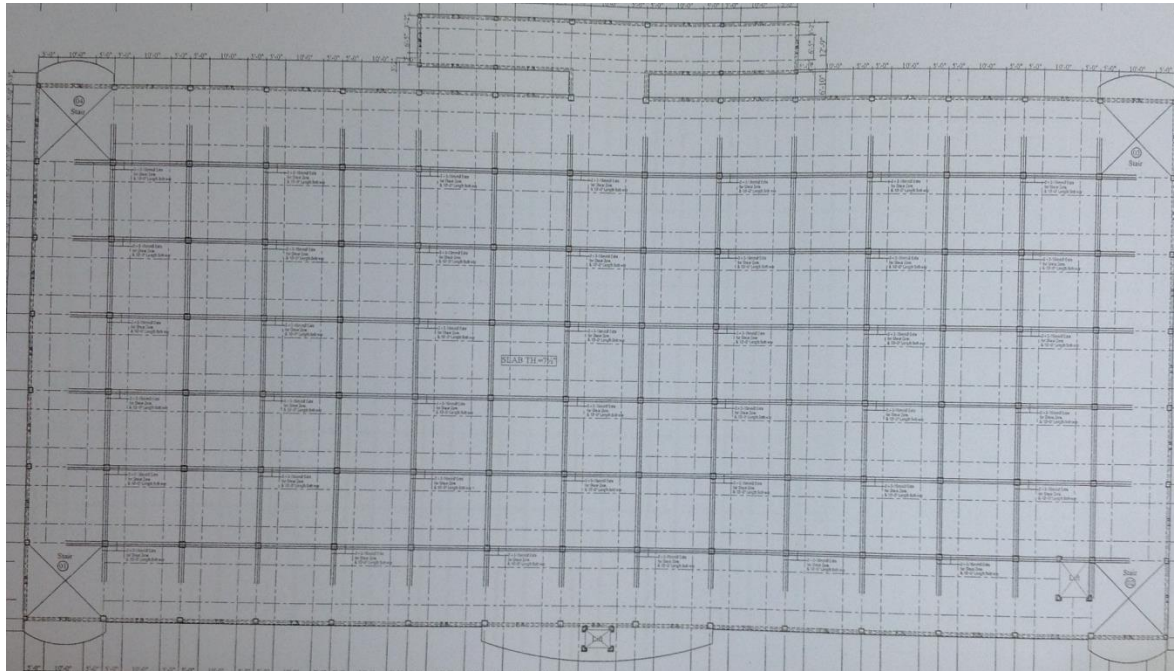
Unfinished male toilets



View from inside male toilets

The male toilets are currently under construction, while they are still in use. Appropriate precautions have not been taken to ensure the safety of the factory workers during construction.

Discrepancies between Construction Drawings and Built Condition

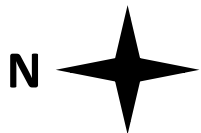


Typical flat slab reinforcement plan

The structural drawings for construction indicated flat slab at all floor levels. The 2013 As-Built drawings only indicate beams at the roof level. However, the structural system that has been built on all levels is beams with two-way spanning slabs.



Typical beam and slab structural system



Loading on Floor Slabs



Storage loading was observed on the floor slabs on the 1st to 4th Floors in the factory building.

2.5 kN/m²
estimated live load

Numerous piles of garments on floor slabs



2.5 kN/m²
estimated live load

Boxes at 1st Floor

Uncontrolled Loading on Floor Slabs



3 kN/m^2
estimated live load

Pile of wool clothing



2.5 kN/m^2
estimated live load

Pile of knitwear

Observed Aggregate

**Brick aggregate was observed in the
Ground Floor columns and floor slabs.**



Brick aggregate in Ground Floor column



Brick aggregate in floor slab

Non-Structural Observations

Lack of Edge Protection at Roof Level

A non-structural observation of concern is the lack of edge protection at the roof level of the 6-storey factory building.



Lack of edge protection at roof level

Problems Observed

Observations

1. Non-Permitted Addition on East Side of Building
2. Unfinished Male Toilets
3. Loading on floors

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Non-Permitted Addition on East Side of Building	Engineering drawings and permit documents required	6-months
2	Unfinished toilets with unstable temporary edge protection	Install proper temporary edge protection during construction phase	6-weeks
3	Unfinished toilets with unstable temporary edge protection	Current temporary Balcony wall protection on slab edge needs to be properly designed and constructed	6-months
4	Loading on floors	A loading plan for all floors to be prepared and implemented for each level based on the capacity of the structure. Max height of storage to be implemented and loading not to exceed 3KPa until loading plans are complete.	6-weeks
5	Loading on floors	Continue to implement loading plan	6-months