

Alliance Stitch Ltd. (9556)

DEPZ, Ganakbari, Savar.
(+23.950920N, 90.271744E)

11.June.2014



Identified Priority 1 Concerns

(none)

Identified Priority 2 Concerns

1st Priority 2 Concern



A medium, horizontal crack was observed in the masonry wall and concrete columns of the TV antenna room on the roof. This masonry and concrete crack could be the result of uplift or overturning forces applied to the TV antenna room on the roof.

2nd Priority 2 Concern



Concrete spalling of awning along exterior corridor wall between adjacent buildings observed at the 1st and 2nd storey.



Cracking in masonry and/or concrete lintel causing windows and walls to warp.

Concrete spalling (top left), cracking (top right), and general deterioration was observed in several areas. The deterioration is more severe at the link between the two buildings, where maintenance and repair has been neglected. In addition, the concrete appeared weak when probed. At the time of our inspection, plaster and masonry repairs had been carried out quite recently, prohibiting observation of the extent of the damaged concrete.

Identified Priority 3 Concerns

1st Priority 3 Concern



No structural drawings were made available for the TV antenna room, the lift room (top left), the concrete corridors between adjacent buildings (top right), the access ramp (bottom left), and the steel canteen roof.

2nd Priority 3 Concern



No loading plans were made available, and stockpiling (top left) and packing (bottom right) areas were observed.



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) A medium, horizontal crack was observed in the masonry wall and concrete columns of the TV antenna room on the roof.**
- ITEM 2: (2nd Priority 2) Concrete spalling, cracking, and deterioration was observed in several areas. The deterioration is more severe at the link between the two buildings, where maintenance and repair has been neglected.**
- ITEM 3: (1st Priority 3) No structural drawings were made available for the TV antenna room, the lift room, the concrete corridors between adjacent buildings, the access ramp, and the steel canteen roof.**
- ITEM 4: (2nd Priority 3) No loading plans were made available.**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 2 - A medium, horizontal crack was observed in the masonry wall and concrete columns of the TV antenna room on the roof.	A Detailed Engineering Assessment is required to determine the cause and extent of this cracking.	6-weeks
2	1st Priority 2 - A medium, horizontal crack was observed in the masonry wall and concrete columns of the TV antenna room on the roof.	Implement any recommendations from the DEA.	6-months
3	2nd Priority 2 - Concrete spalling, cracking, and deterioration was observed in several areas. The deterioration is more severe at the link between the two buildings, where maintenance and repair has been neglected.	All deteriorated concrete needs to be repaired to prevent further damage and falling concrete. An Engineering Assessment is required to determine the cause and extent of the damaged lintel and warping of windows in the link.	6-weeks
4	2nd Priority 2 - Concrete spalling, cracking, and deterioration was observed in several areas. The deterioration is more severe at the link between the two buildings, where maintenance and repair has been neglected.	Concrete tests should be carried out to determine the current concrete strength. Implement any recommendations from EA.	6-months
5	1st Priority 3 - No structural drawings were made available for the TV antenna room, the lift room, the concrete corridors between adjacent buildings, the access ramp, and the steel canteen roof.	Structural Engineer to provide drawings reflecting existing conditions.	6-months
6	2nd Priority 3 - No loading plans were made available.	Structural Design Engineer to provide loading plans based on capacity, not current loading. Post and manage loading plans.	6-months