

Technical Report - Ghazee Building

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Report prepared by:

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Client:

Ministry of Education



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Project: Ghazee Building

Contractor:

Ref No: GB - 01

Issue Date: 27/02/2018

Attachments: NA

Location: Male'

Distribution: Project Files (Male')

DETAILS

- Summary

The Ministry of Education requested Riyan Pte Ltd to carry out a condition assessment of an existing building, Ghazee Building in Male'.

The scope of work for the preliminary assessment includes the following

- A visual assessment of the building structures. The assessment was focused on the ground floor walls interior and exterior.

It is here noted that field investigation was limited to a visual investigation of the accessible elements only.

2. Summary of Condition

2.1 Building Condition

From the visual observation the following types of defects were found for the respective building elements.

2.1.1 Partition Wall (Interior)

- Leakage of water from the plywood partitions were observed.

2.1.2 Mansory wall (Exterior wall)

- Cracks were observed above and below area which used to be a window location.

3. Analysis

- The water leakage maybe due to the cracks found on the exterior wall of the building.



4. Recommendation and conclusion

- The water leakage found on the interior partition wall maybe due to the cracks on the exterior masonry wall, however, it is advisable to further investigate the location by removing the partition walls.
- The cracks on the exterior masonry wall needs to be chipped to their full extent prior to repair. The chipped area should be of sufficient width so to allow the application of the concrete repair mortar.
- A repair admixture such as Mastercast 141 or equivalent should be used. Bonding slurry should be applied to the chipped concrete surfaces prior to repair with the modified cement mortar.
- All repairs with admixture should be done in accordance with manufacturer's instructions and under the supervision of a qualified engineer.



Site Visit Pictures



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7