

Chaity Composite Ltd.

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Observations Made

Cracks in Beams

Hairline cracks have appeared mid-span in the beams on the 2nd floor in the Production Building.

Engineer should remove plaster to check if crack is in the plaster only, or through to the structure.

Flexural Crack in Beams

Bracing Elements in Utility Building missing



Bracing Elements appear to have been removed and should be checked to see if replacements are needed

Ties in Utility Building missing

Priority Actions

Problems Observed

1. Cracks in Beams
2. Bracing Elements in Utility Building missing

	Observation	Recommended Action Plan	Priority
1	Cracks in Beams	Sections of plaster finish to beams to be removed to investigate if cracks penetrate the building structure.	6-weeks
2	Cracks in Beams	Building Engineer to carry out design check on beams to confirm that these cracks are non-structural.	6-months
3	Cracks in Beams	Building Engineer to prepare Allowable Floor Loading Plans.	6-months
4	Bracing Elements in Utility Building missing	Building Engineer to assess the need to replace steel bracing elements with the original element or similar.	6-weeks
5	Bracing Elements in Utility Building missing	Building Engineer to confirm that bracing replacement has been carried out if required.	6-months
6	Bracing Elements in Utility Building missing	Continue implementing load plan.	6-months

Detail Engineering Assessment

This Schedule develops a minimum level of information, Analysis and testing expected as part of a Detail Engineering Assessment.

The Building(s) have been visually assessed and it is deemed necessary that a detailed engineering assessment be carried out by a competent Engineering Team employed by the factory Owner.

This Request should be read in conjunction with the BUET developed Tripartite Guideline document for Assessment of Structural Integrity of Existing RMG Factory Buildings in Bangladesh (Tripartite Document), the latest version of this document should be referenced. This document also gives guidance on required competency of Engineering Team.

We expect that the following will be carried out:

1. Development of Full Engineering As-Built Drawings showing Structure, loading, elements, dimensions , levels, foundations and framing on Plan, Section and Elevational drawings .
2. The Engineering team are to carry out supporting calculations with a model based design check to assess the safety and serviceability of the building against loading as set out in BNBC-2006, Lower rate provisions can be applied in accordance with the Tripartite Guidelines following international engineering practice, justification for these lower rate provisions must be made.
3. A geotechnical Report describing ground conditions and commenting on foundation systems used/proposed.
4. A report on Engineering tests carried out to justify material strengths and reinforcement content in all key elements studied.
5. Detailed load plans shall be prepared for each level showing current and potential future loading with all key equipment items shown with associated loads.
6. The Engineering team will prepare an assessment report that covers the following:
 - As-Built drawings including
 - Plans at each level calling up and dimensioning all structural components
 - Cross sectional drawings showing structural beams, slabs, floor to floor heights, roof build-ups and Basic design information of the structure
 - Highlight any variation between As-built compared to the designed structure
 - Results of testing for strength and materials
 - Results of geotechnical assessment and testing/investigation
 - Details of loading, inputs and results of computer modelling
 - Commentary on adequacy/inadequacy of elements of the structure
 - Schedule of any required retrofitting required for safety or performance of Structure

Any proposals for Retrofitting to follow guidance developed in the Tripartite Document