

Rhythm Fashion Ltd.

687 CDA R/A, Road No:20, Agrabad, Chattogram

(22.326606,91.796812)

14 June 2026

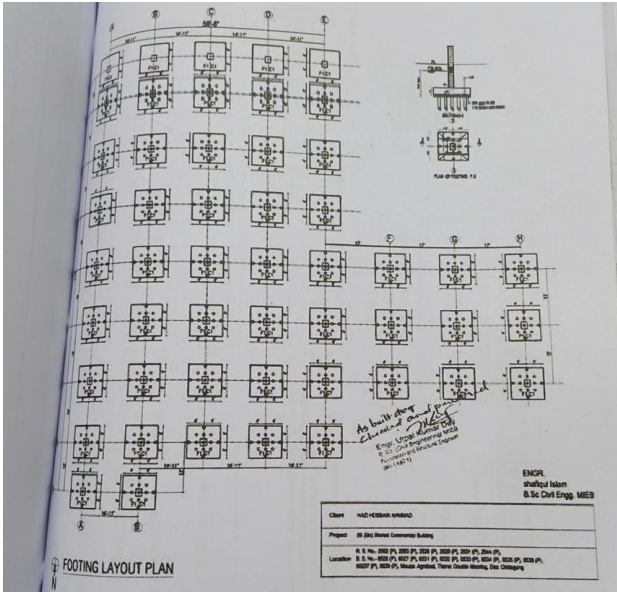


1. Building Information

- i) **Main Production Building:** The structure is a 6-storied RC building with a partial basement (B+G+5).
- ii) **Shed-1:** The structure is a single-storied roof shed supported on brick walls.
- iii) **Shed-2:** The structure is a single-storied roof shed supported on brick walls.

2. Observation

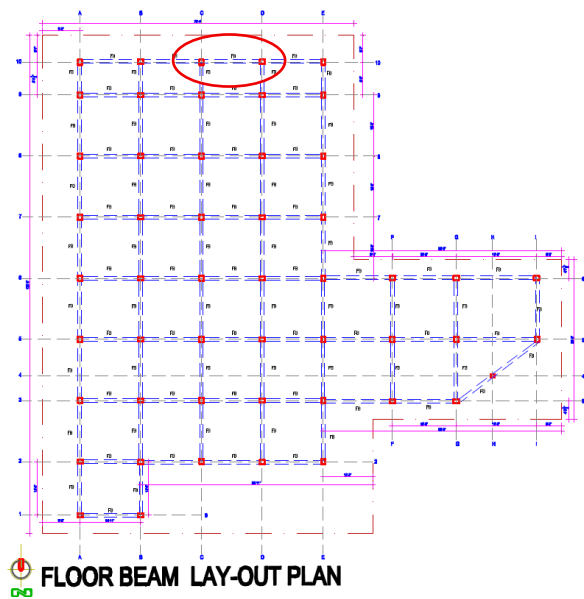
Observation-1: High stress in foundation (Main Production Building)



Description: Cursory calculation indicates FoS of foundation (single footing) below the design limit considering the floor live loading 2kPa and allowable bearing capacity of soil 1.0 Tsf (FoS-2.5) at 2.9 m depth. Building engineer is required to review the design, loads, and foundation stresses.

Also, the design report of the Main Production Building was available on-site. However, only four sets of concrete core test reports from the column were available. But no material test report was available for the beam and slab (flat-plate portion). Moreover, credible drawings were not available for the foundation details. The building engineer is required to confirm the foundation system, revise the design report in accordance with BNBC 1.9.1, verify in situ concrete strength by taking 100 mm-diameter concrete cores from the structural members (Beam and Slab), and submit the design documents to RSC for detailed review.

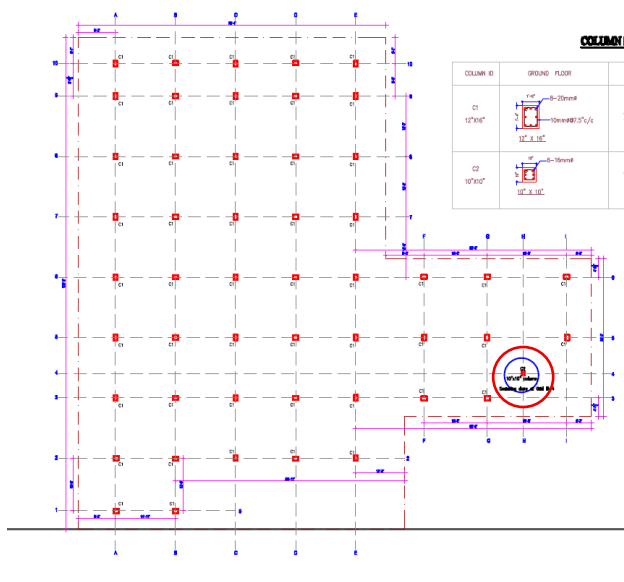
Observation-2: Mismatch in the prepared drawings. (Main Production Building)



Floor beam layout



Misalignment of the beam from the column joint



Column layout



Rotated column

Description: In the provided drawing, one beam is found to be misaligned, and one column is found rotated.

Building engineer is required to survey the structure and update the as-built drawing.

Observation-3: Non-structural elements found unbraced/not anchored. (Main Production Building)



Description: Non-structural elements suspended from, attached to, or resting atop the structure shall be adequately anchored and braced to resist earthquake forces. Factory is required to brace/anchor all non-structural elements (storage racks).

Observation-4: Cracks found on the brick wall and cantilever slab. (Main Production Building)



Description: During the inspection, cracks were observed on the brick wall and cantilever slab. The factory is required to repair the cracks as per the recommendation of the building engineer.

Observation-5: Inadequate members and connections. (Shed 1 & 2)



Shed 1



Shed 2

Description: Inadequate members and non-engineered connections were observed in Shed 1 and Shed 2. The building engineer is required to check the structural member, connection & stability systems and recommend appropriate remediation in the safety check report.

Observation 6: Corrosion on steel members. (Shed 1)



Description: Corrosion was observed on the steel members of Shed 1. The building engineer is required to remove the corrosion with a suitable method and provide an anti-corrosive coating.

Observation 7: Dampness on the brick wall. (Shed 2)



Description: Dampness was observed on the brick wall. The building engineer is required to identify the locations and reasons, seal the source of the dampness, and repair the affected areas using an appropriate method.

3. Action Plan:

Item No.	Observation	Action Plan	Timeline
1.	High stress in foundation (Main Production Building)	As part of the Detailed Engineering Assessment (DEA), the building engineer is required to review the design load, foundation stresses, and suggest proper remedial actions.	within 6 weeks
2.		Verify in-situ concrete strength by taking 100 mm diameter concrete cores from the structural members (foundation, Beam and Slab)	within 6 weeks
3.		Building engineer is required to confirm the foundation system and update the foundation check as part of the design report and submit it to RSC for review.	within 6 weeks
4.		Carry out suggested remedial works (if required)	within 6 months
5.	Mismatch in the prepared drawings. (Main Production Building)	Building engineer is required to survey the structure and update the as-built drawing.	within 6 weeks
6.	Non-structural elements found unbraced/not anchored. (Main Production Building)	Building engineer is required to brace/anchor all non-structural elements.	within 6 weeks
7.	Cracks were found on the brick wall and cantilever slab. (Main Production Building)	Building engineer is required to investigate the crack and repair it with a suitable method.	within 6 weeks
8.	Inadequate members and connections. (Shed 1)	The building engineer is required to check the structural member, connection & stability systems and recommend appropriate remediation in the safety check report.	within 6 weeks
9.		Carry out suggested remedial works (if required)	within 6 months
10.	Inadequate members and connections. (Shed 2)	The building engineer is required to check the structural member, connection & stability systems and recommend appropriate remediation in the safety check report.	within 6 weeks
11.		Carry out suggested remedial works (if required)	within 6 months

12.	Corrosion on steel members. (Shed 1)	The building engineer is required to remove the corrosion with a suitable method and provide an anti-corrosive coating.	within 6 weeks
13.	Dampness on the brick wall. (Shed 2)	The building engineer is required to identify the locations and reasons, seal the source of the dampness, and repair the affected areas using an appropriate method.	within 6 weeks