

Tasniah Fabrics Ltd. (9886)

Nayapara, Konabari, Kashimpur, Garzipur

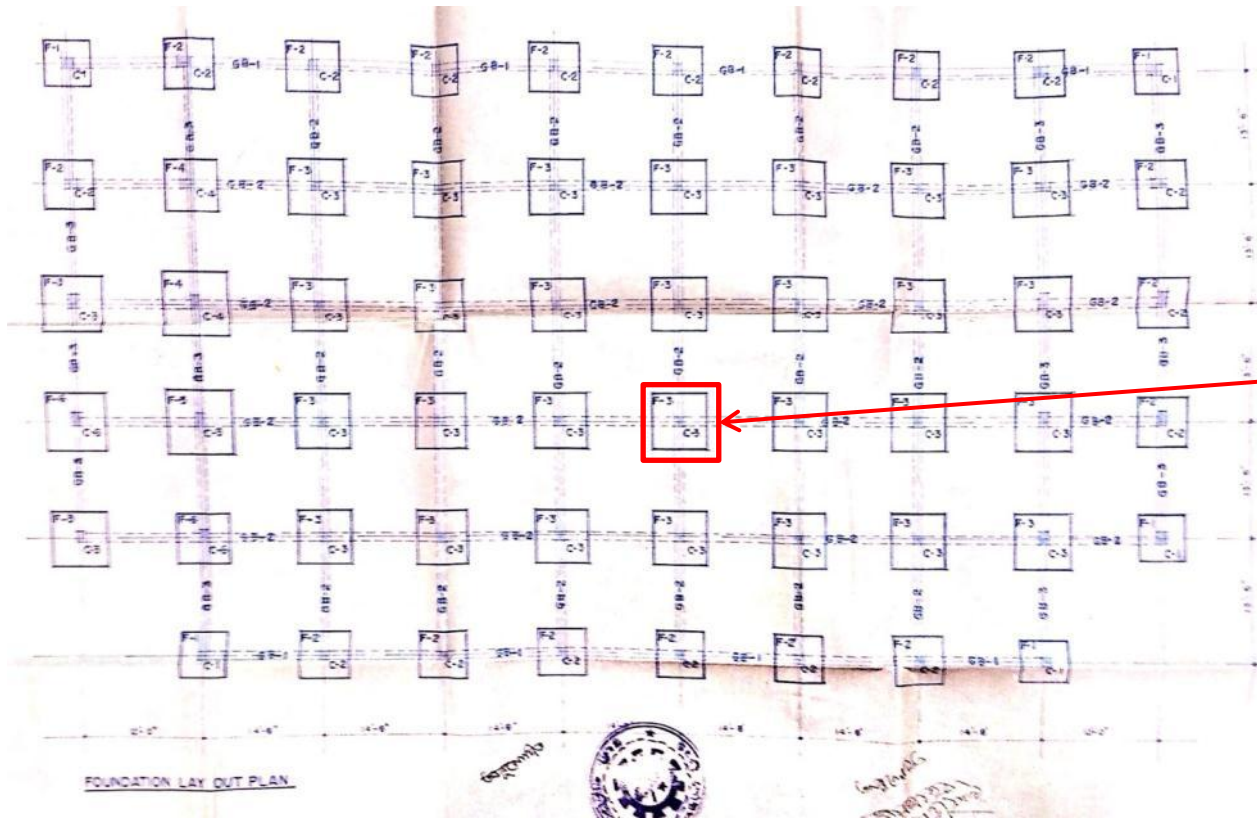
(+ 23.989539N,90.318917E)

25.MAY.2014



Identified Priority 2 Concerns

- Column load run-down indicate a low factor of safety for column.
- Cracks appeared on beam and slab, capacity check is required,
- No structural drawings for steel roof and insufficient lateral steel bracing, capacity check is required,
 - Existing structural system does not match the construction documentations,
 - No structural support for water tank and
 - Overall stability system.

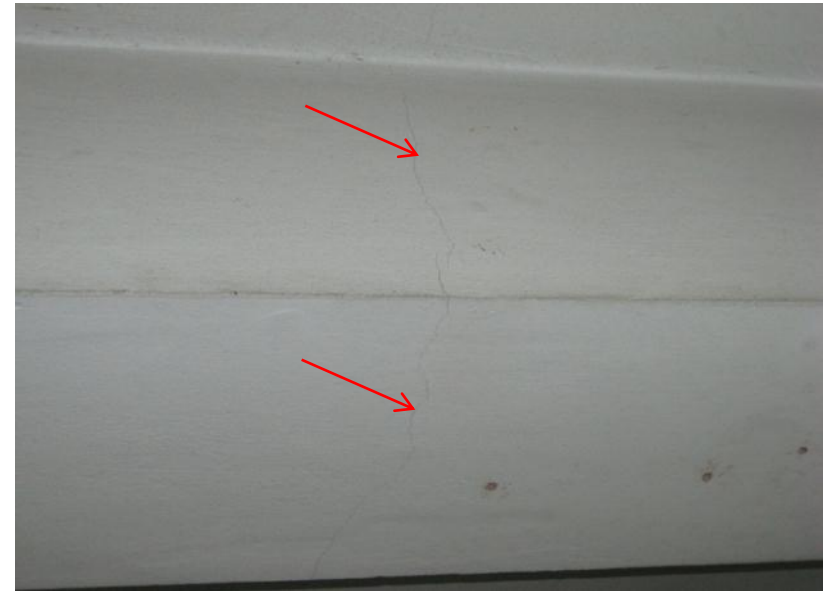
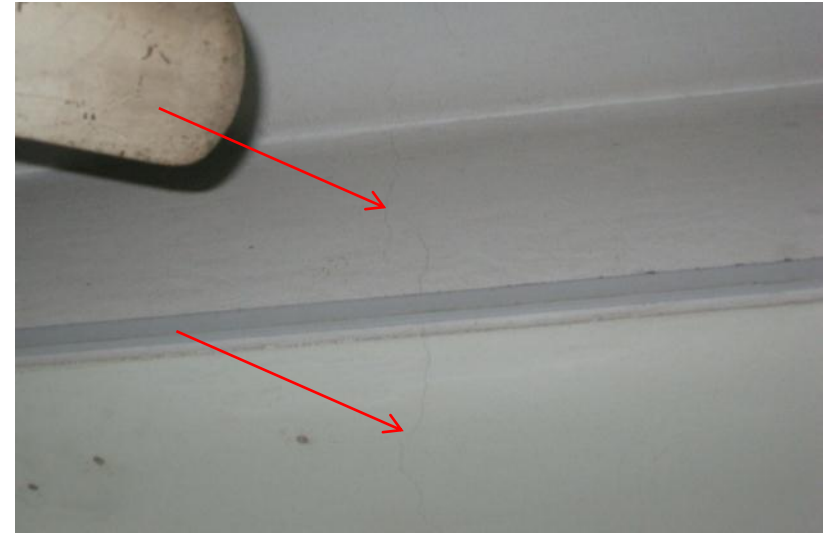
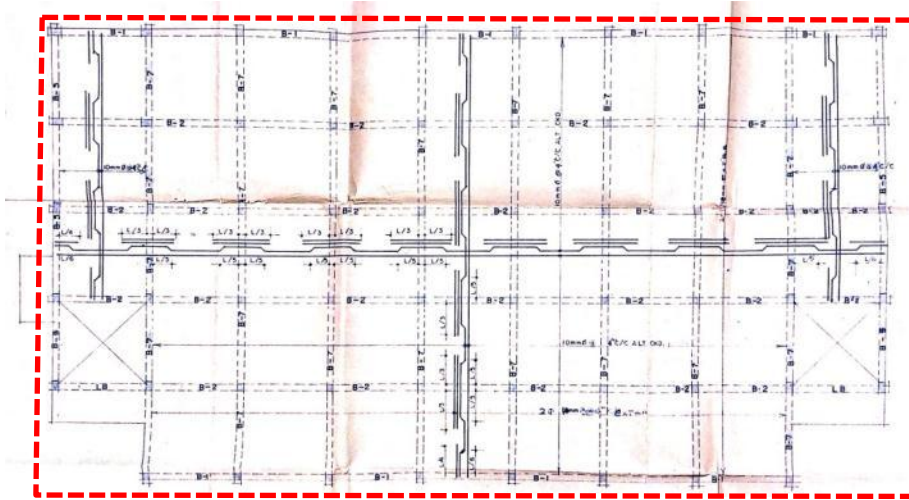


Based on the column load rundown with the agreed minimum design live load assignment, A shown column seems to be significantly insufficient in carrying the dead and live loads, giving a firm **AMBER** warning, suggesting a necessity for immediate structural analysis of the building, with the columns appearing very close to being overloaded.

Building Extents

Main Building

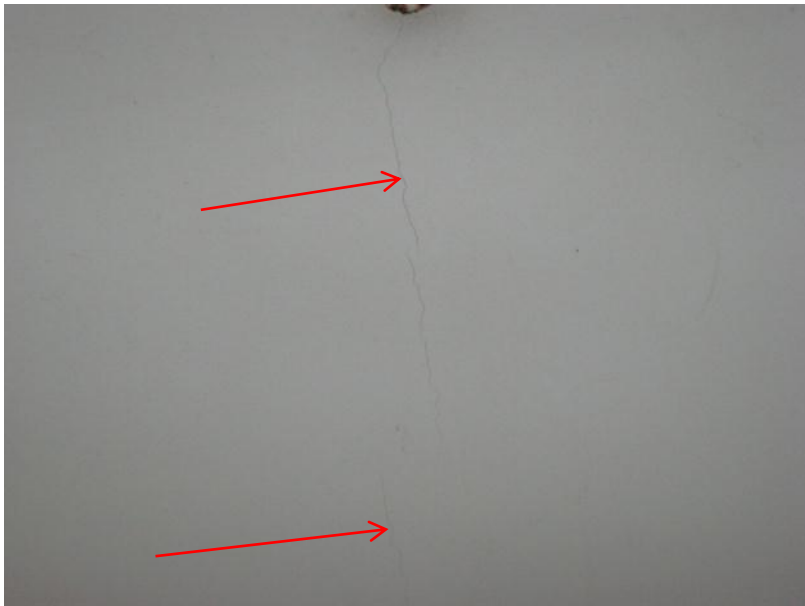
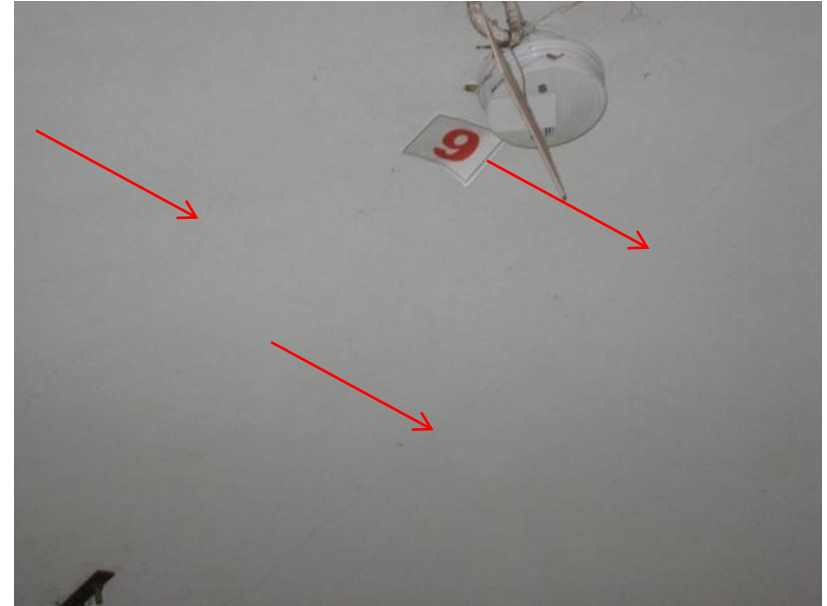
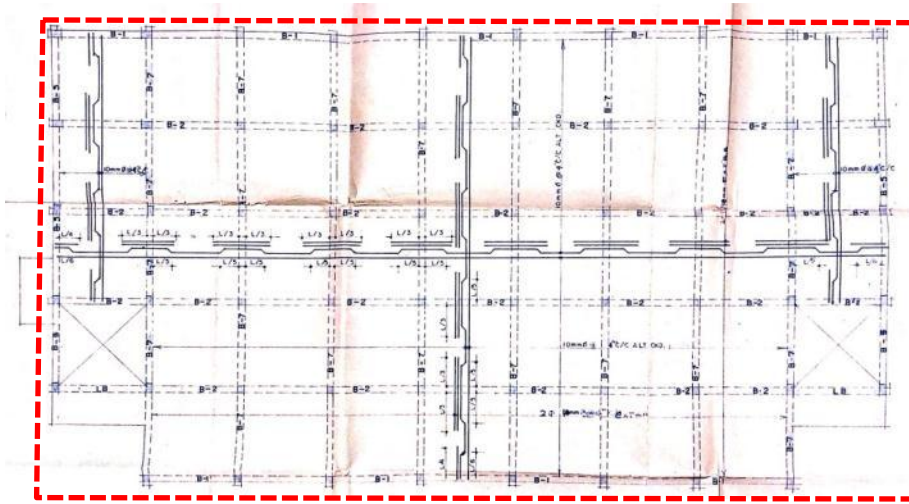
2nd Priority 2 Concern



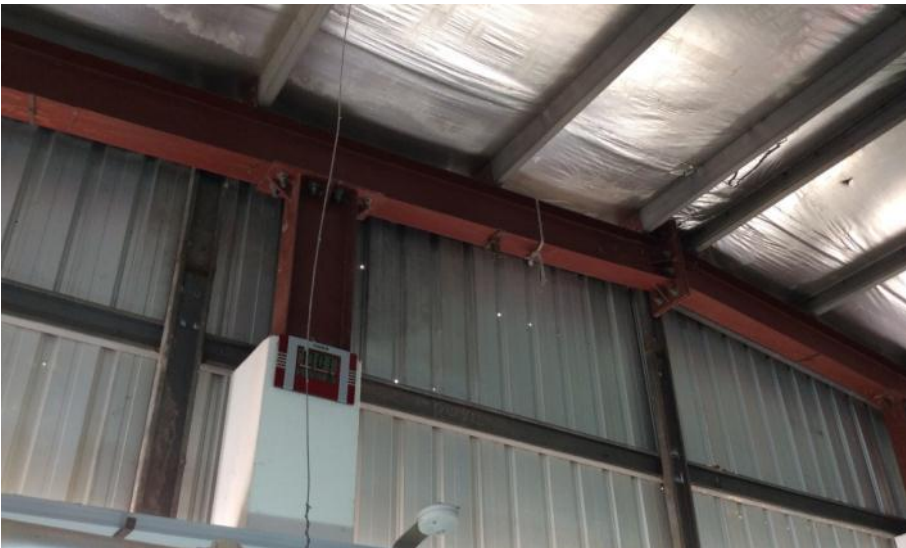
Cracks appeared underside beam and slab on 2nd and 3rd floor, capacity check is required prior to repairing.

Main Building

2nd Priority 2 Concern



Main Building



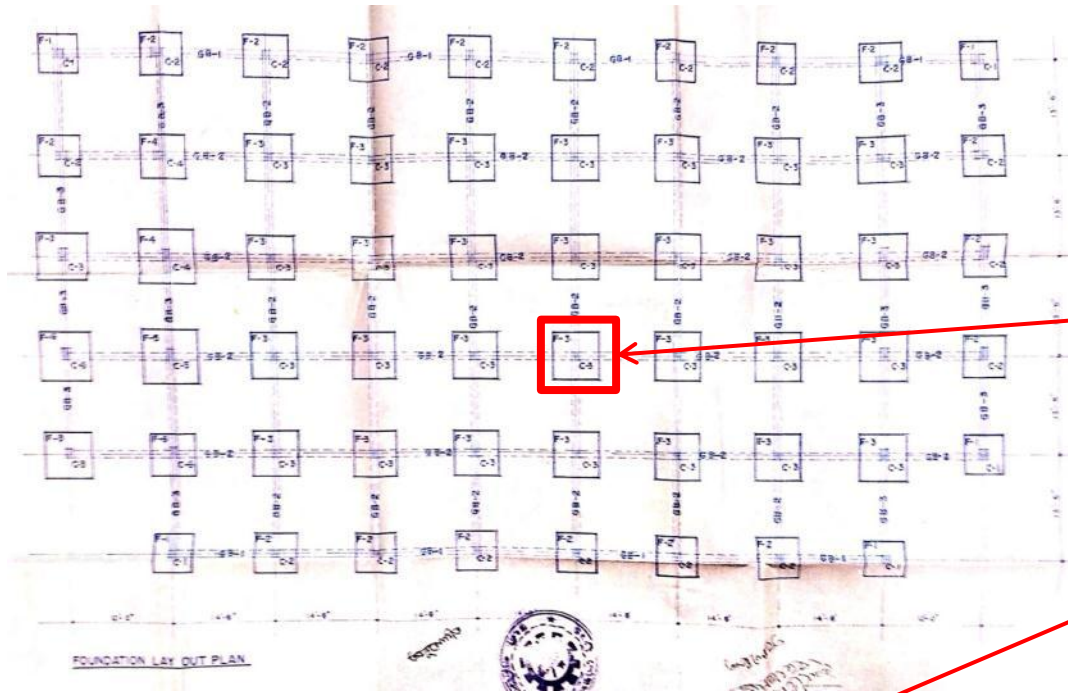
3rd Priority 2 Concern



There is no structural drawings provided and insufficient lateral steel bracing. Capacity check is required.

Main Building

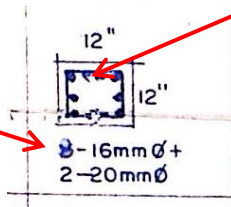
4th Priority 2 Concern



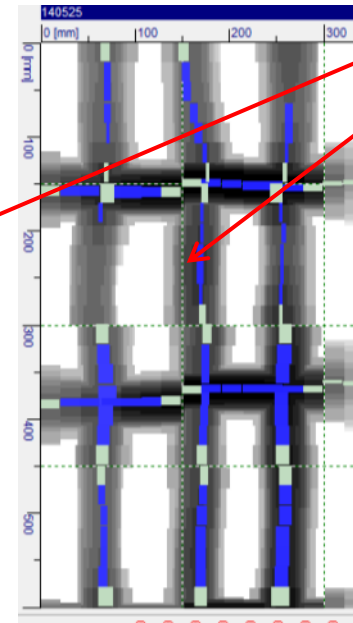
COLUMN SCHEDULE:

COLUMN NO.	UP TO TOP OF GRADE BEAM	UP TO GROUND FLOOR ROOF TOP
C-3		

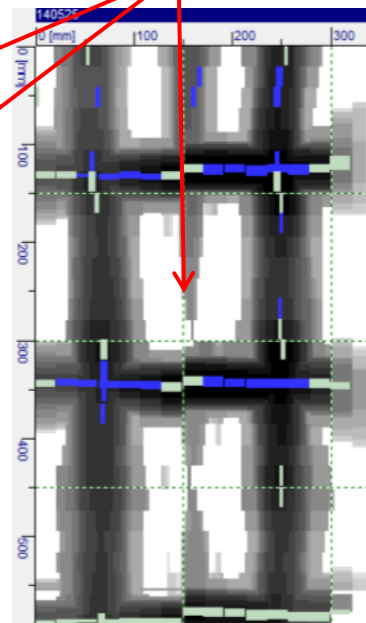
8-16mm.+2-20mm



The number of re-bars detected appear to be fewer than those specified on the construction drawings.



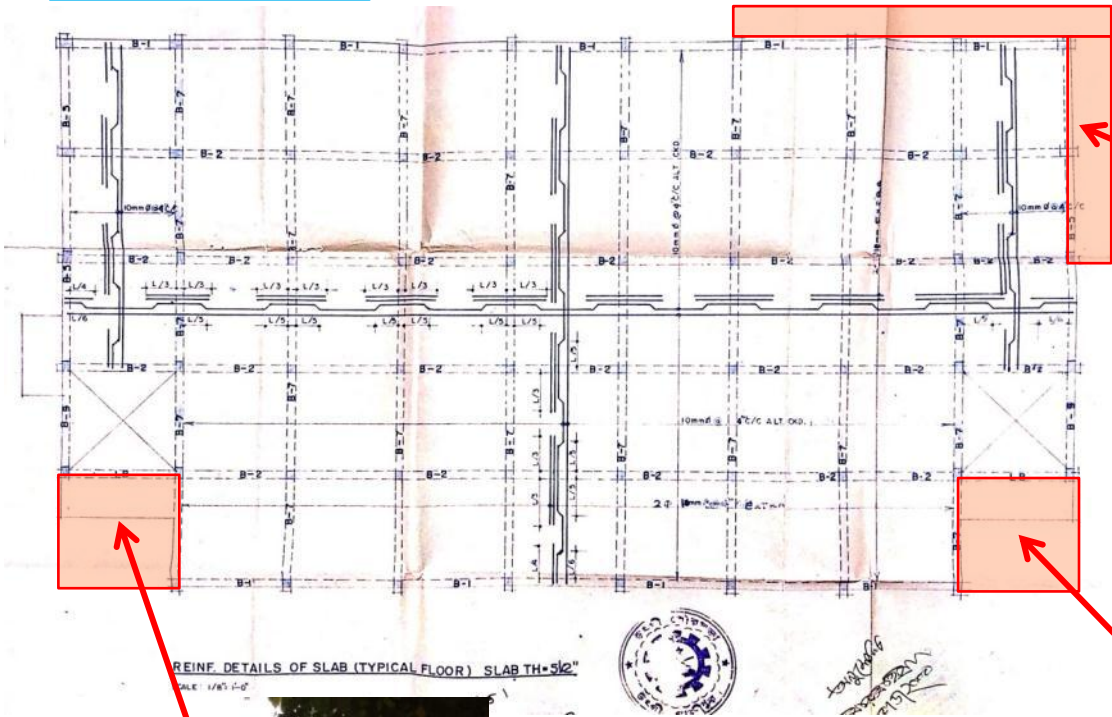
Long Side: 3-16mm.



Short Side: 3-16mm.

Main Building

4th Priority 2 Concern

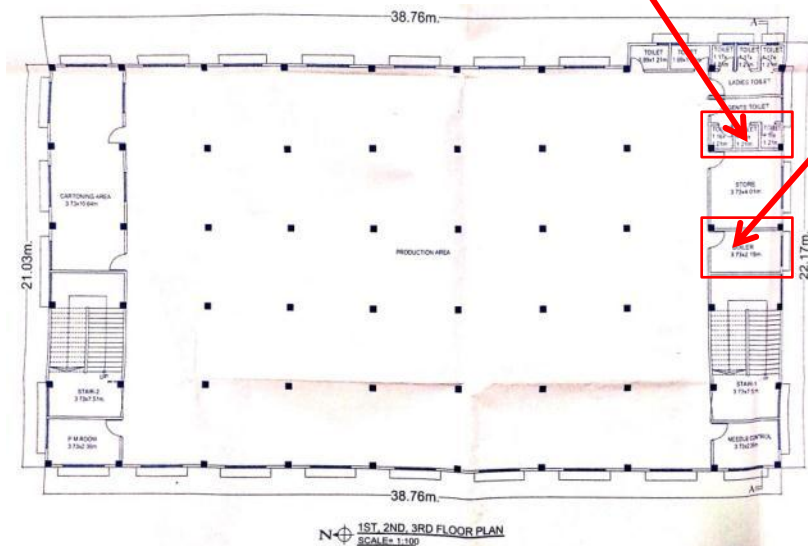


There are cantilevered slabs and beam on 1st to 3rd floor levels that do not appear on the structure drawings. Capacity checks are required.



Main Building

5th Priority 2 Concern



There are no structural support for water tank, capacity check is required.

Overall Stability System



We require that these items be investigated as part of a Detailed Engineering Assessment

Concerns on the stability system for lateral loading. Façade brickwork walls lack of moment capacity in connection between columns and beams.



Identified Priority 3 Concerns

- No fireproofing material applied for steel structural elements (if required)

Main Building

1st Priority 3 Concern



There are no fire proofing material applied for structural steel elements. It is unclear whether it is required by BNBC.

Priority Actions

Problems Observed Summary

ITEM 1:	(Priority 2)	Column load run-down indicate a low factor of safety for column.
ITEM 2:	(Priority 2)	Cracks appeared on beam and slab, capacity check is required.
ITEM 3:	(Priority 2)	No structural drawings for steel roof and insufficient lateral steel bracing, capacity check is required.
ITEM 4:	(Priority 2)	Existing structural system does not match the construction documentations.
ITEM 5:	(Priority 2)	No structural support for water tank, capacity check is required.
ITEM 6:	(Priority 2)	Overall stability system.
ITEM 7:	(Priority 3)	No fireproofing material applied for steel structural elements (if required).

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Column load run-down indicate a low factor of safety for column.	Factory engineer to review design, loads and column stresses in areas identified above. Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor slab and column capacity.	6-weeks
2	Column load run-down indicate a low factor of safety for column.	Maintain standards of quality control to ensure that loading plan is correctly followed so that overloading problems do not arise in the future.	6-months
3	Cracks appeared on beam and slab, capacity check is required.	A Detailed Engineering Assessment of the factory is to be carried out. The distress found is to be suitably repaired. Simply plastering over is not allowed.	6-weeks
4	Cracks appeared on beam and slab, capacity check is required.	Maintain standards of quality control to ensure that loading plan is correctly followed so that problems do not arise in the future.	6-months
5	No structural drawings for steel roof and insufficient lateral steel bracing, capacity check is required.	Factory Engineer to review design and Detailed Engineering Assessment to be completed.	6-weeks
6	No structural drawings for steel roof and insufficient lateral steel bracing, capacity check is required.	Continue to implement load plan	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
7	Existing structural system does not match the construction documentations.	Factory Engineer to review design and Detailed Engineering Assessment to be completed.	6-weeks
8	Existing structural system does not match the construction documentations.	Continue to implement load plan	6-months
9	No structural support for water tank, capacity check is required.	Factory Engineer to review design and Detailed Engineering Assessment to be completed.	6-weeks
10	No structural support for water tank, capacity check is required.	Continue to implement load plan	6-months
11	Overall stability system.	Request that the Detail Engineering Assessment of the overall building to be carried out and in particular, stability and foundation aspects should be investigated in detail.	6-weeks
12	No fireproofing material applied for steel structural elements (if required).	Fireproofing material for structural steel element is recommended as suggested in BNBC Codes. Maintain standard of quality control.	6-months