

Jay Jay Mills(Bangladesh). Pvt. Ltd.

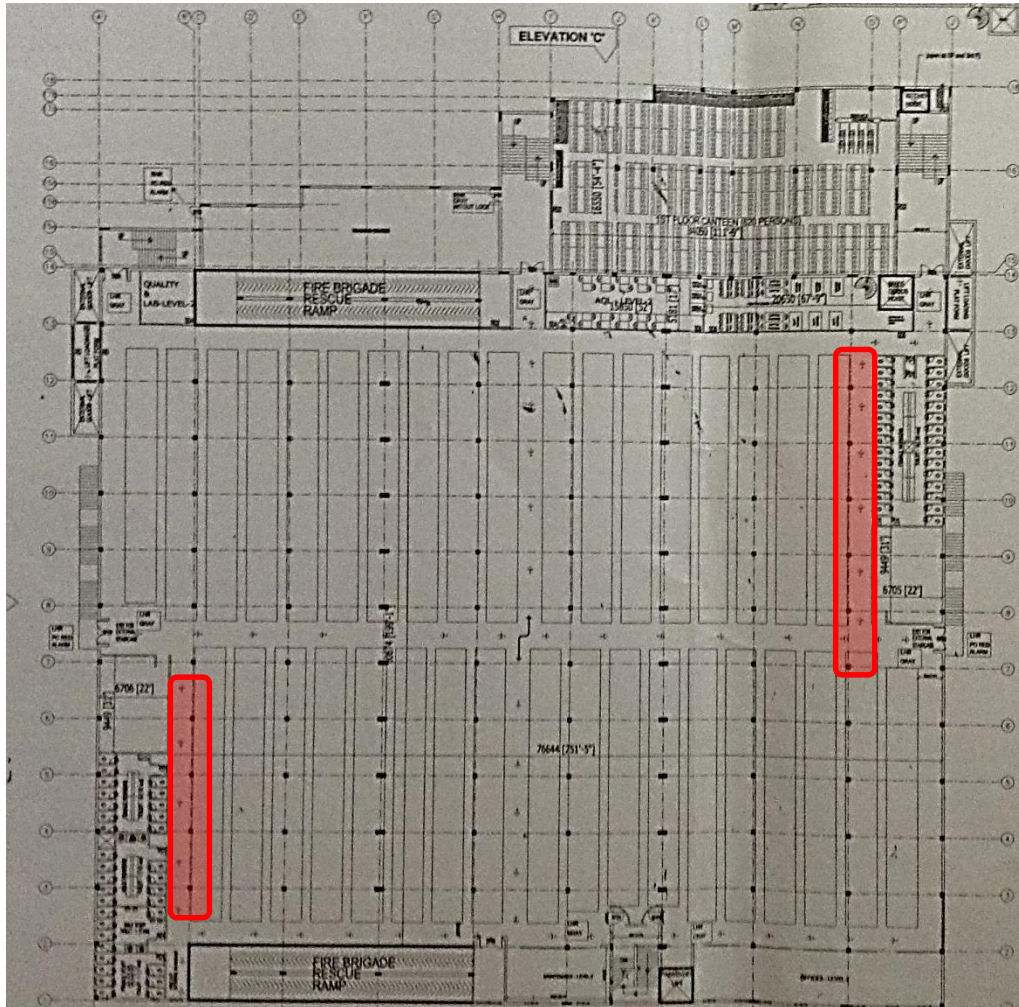
Plot # 2-4 & 9-11, Sector # 7/A, CEPZ, South Haliashahar, Chittagong-4223, Bangladesh
(+22.299997N, 91.772917E)

1st July 2014



Observations

Columns, which support toilet area floor build-up loads, appear to be stressed in excess of normal design limits

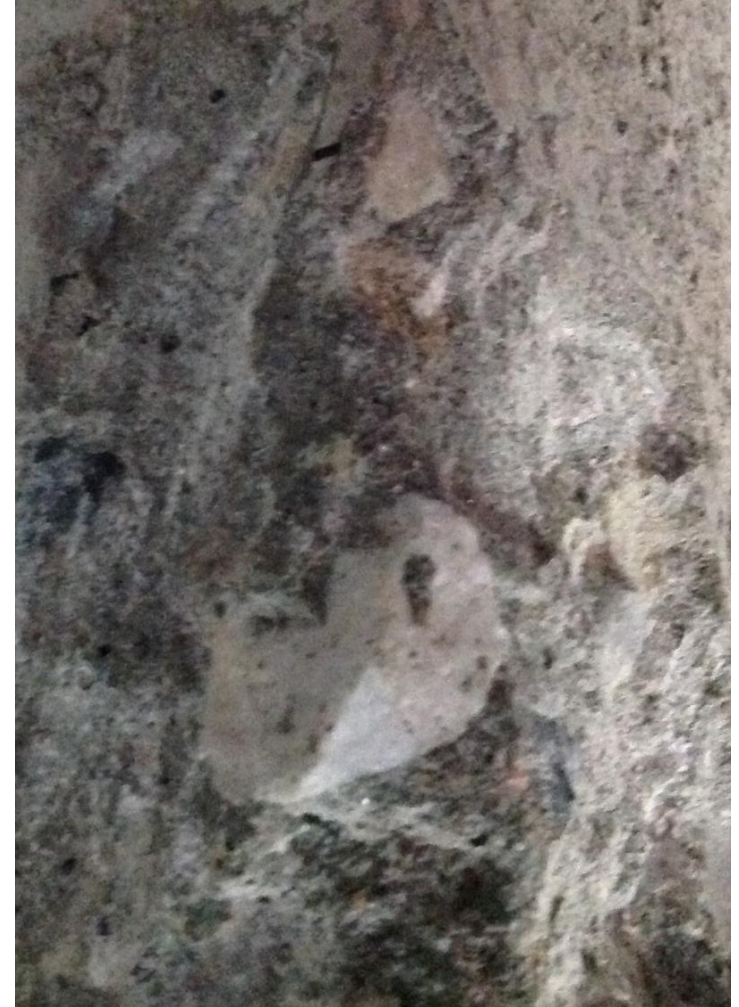


Typical Floor plan



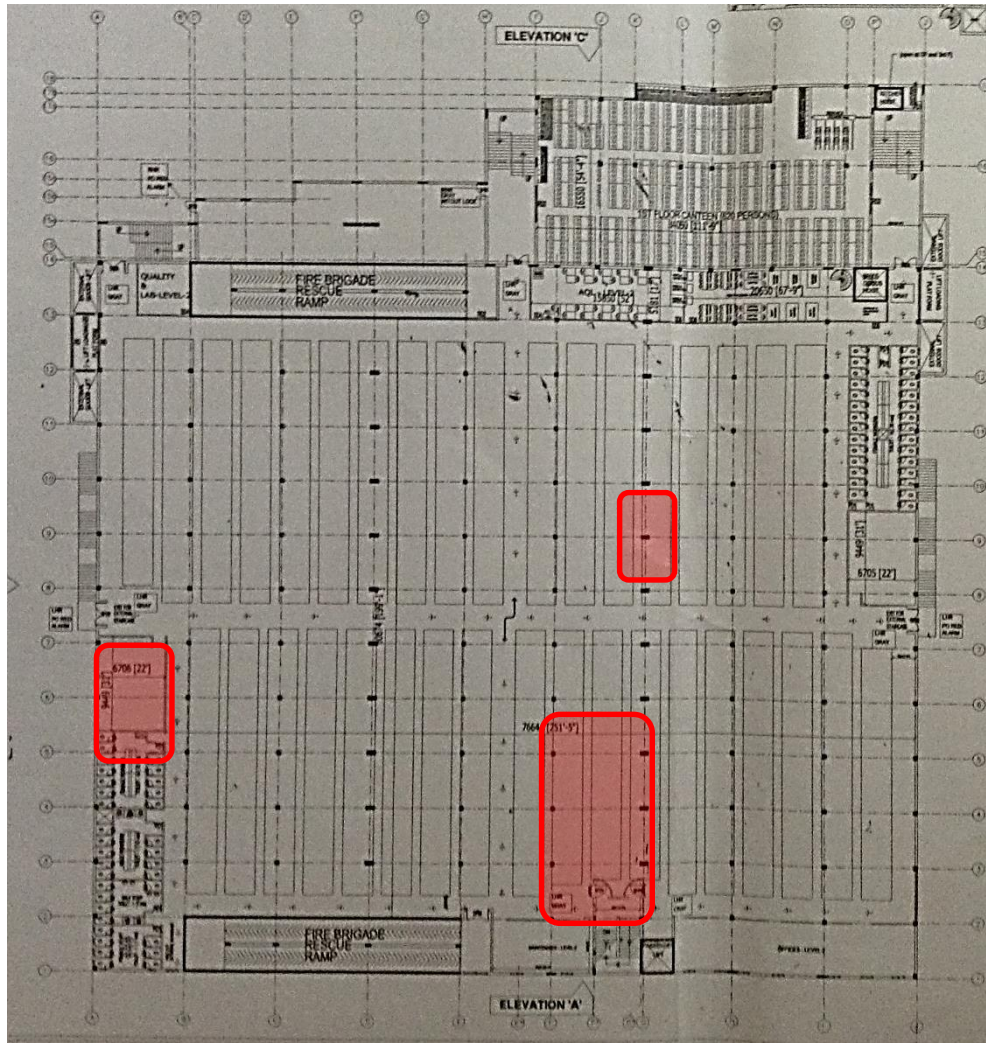
Highly stressed column locations – in the area of toilets

Column Strength



Stone aggregate observed in columns

Management of floor loads



Typical floor plan



Unmanaged storage



Area of material storage on 1st floor

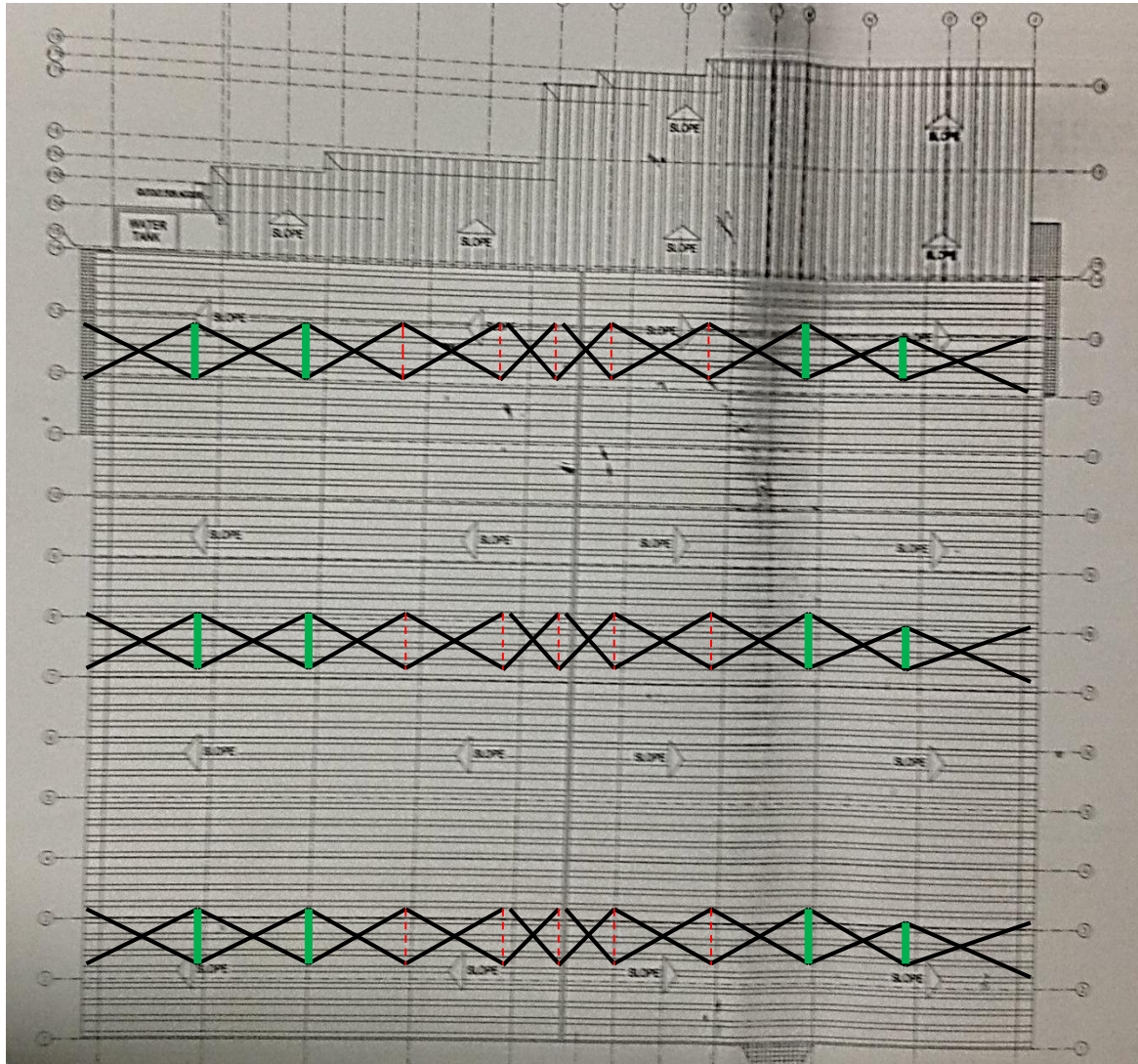


Unmanaged storage

Floor Loads

Missing Compression Struts to Roof Bracing System

Missing Compression Struts to Roof Bracing System



- Missing Compression Strut
- Existing Tension only member
- Existing Compression Strut

Production Building - Roof Plan

Roof Bracing



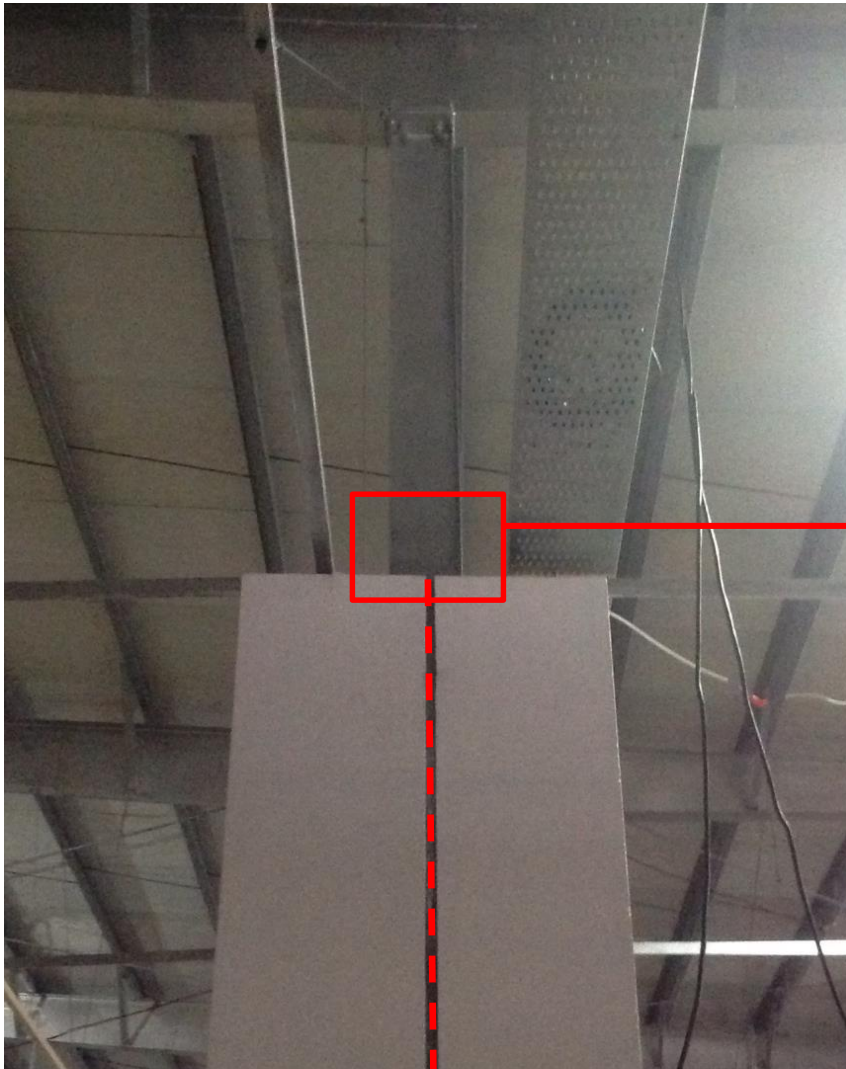
Compression strut in roof bracing



Compression Strut missing from roof bracing

Roof Bracing

Roof Support Baseplate Anchored both sides of Movement joint



Roof Support centred on movement joint



Double columns - movement joint



Baseplate anchored both sides of movement joint

Roof Support Baseplate

Priority Actions

Problems Observed

ITEM 1: Columns, which support toilet area floor build-up loads, appear to be stressed in excess of normal design limits.

ITEM 2: Management of floor loads.

ITEM 3: Missing compression struts to roof bracings.

ITEM 4: Roof support baseplate anchored both sides of movement joint.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Columns, which support toilet area floor build-up loads, appear to be stressed (at ground floor level) in excess of normal design limits.	Factory Engineer to review design, loads and column stresses in area identified above.	6-weeks
2	Columns, which support toilet area floor build-up loads, appear to be stressed (at ground floor level) in excess of normal design limits.	Verify insitu concrete strengths (using min. 4 no. 100mm dia. Cores) and existing reinforcement for all columns in the highlighted area.	6-weeks
3	Columns, which support toilet area floor build-up loads, appear to be stressed (at ground floor level) in excess of normal design limits.	Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor capacity and column capacity.	6-weeks
4	Columns, which support toilet area floor build-up loads, appear to be stressed (at ground floor level) in excess of normal design limits.	Continue to implement load plan (See Item 2)	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Management of floor loads	Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor capacity and column capacity. (Refer to Item 1)	6-weeks
6	Management of floor loads	Implement floor loading plans on an on-going basis.	6-months
7	Compression struts missing from roof bracing system	Building Engineer to assess roof bracing system for lateral wind loading as per BNBC. Particular consideration should be given to missing compression struts in braced bays	6-months
8	Compression struts missing from roof bracing system	Building Engineer to design and detail structural upgrading works, as necessary.	6-months
9	Roof Support Baseplate anchored both sides of Movement joint	Building Engineer to monitor baseplate connections across movement joints given consideration to spalling of concrete around anchors.	6-months