

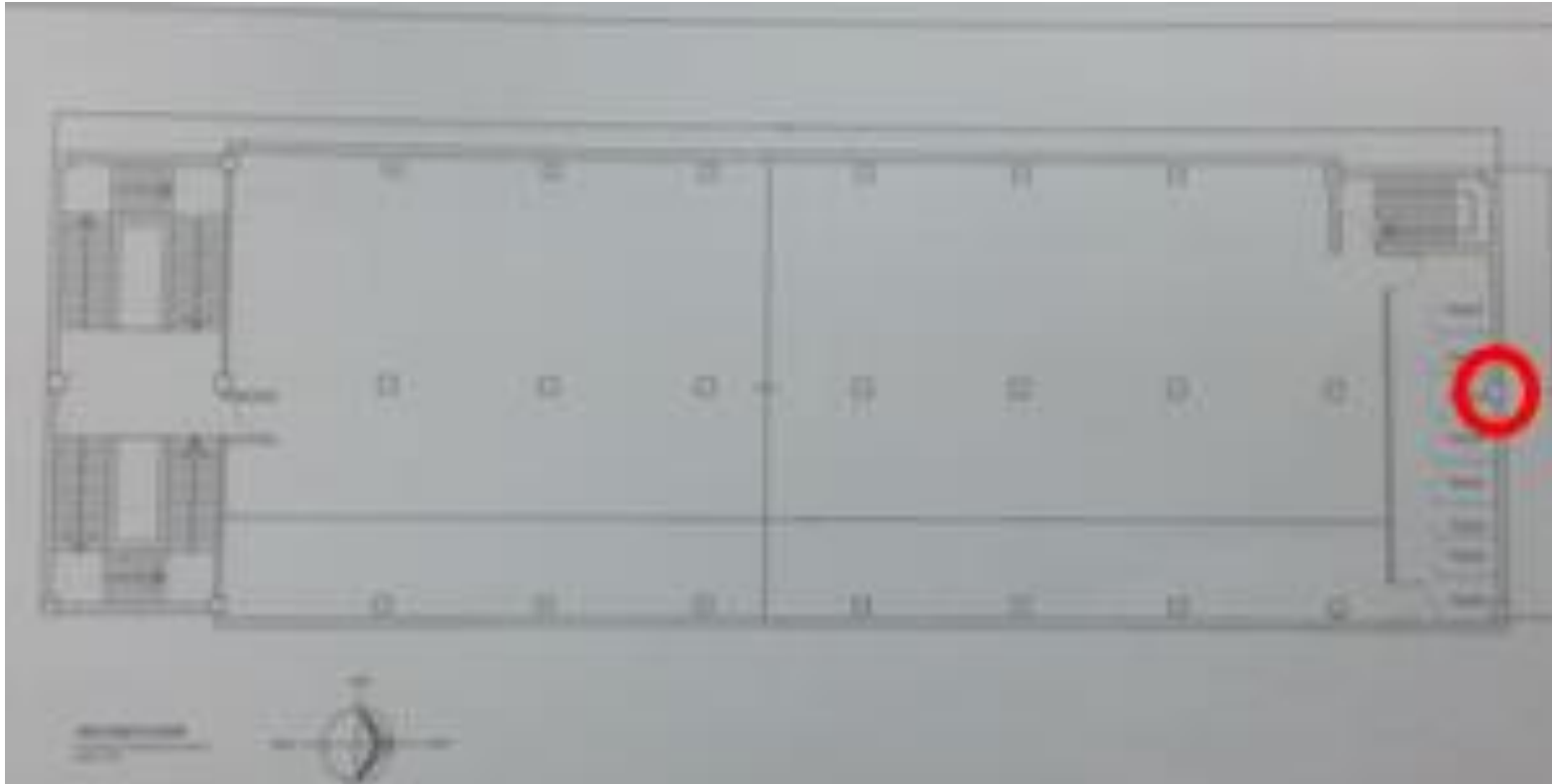
K-Tex Industrial Co. Ltd

Plot No.76, Road-5, Block-k Rupnagar Industrial Area, Sector-2, Mirpur, Dhaka-1216
(23°48'42"N, 90°21'27"E)
7th February 2015



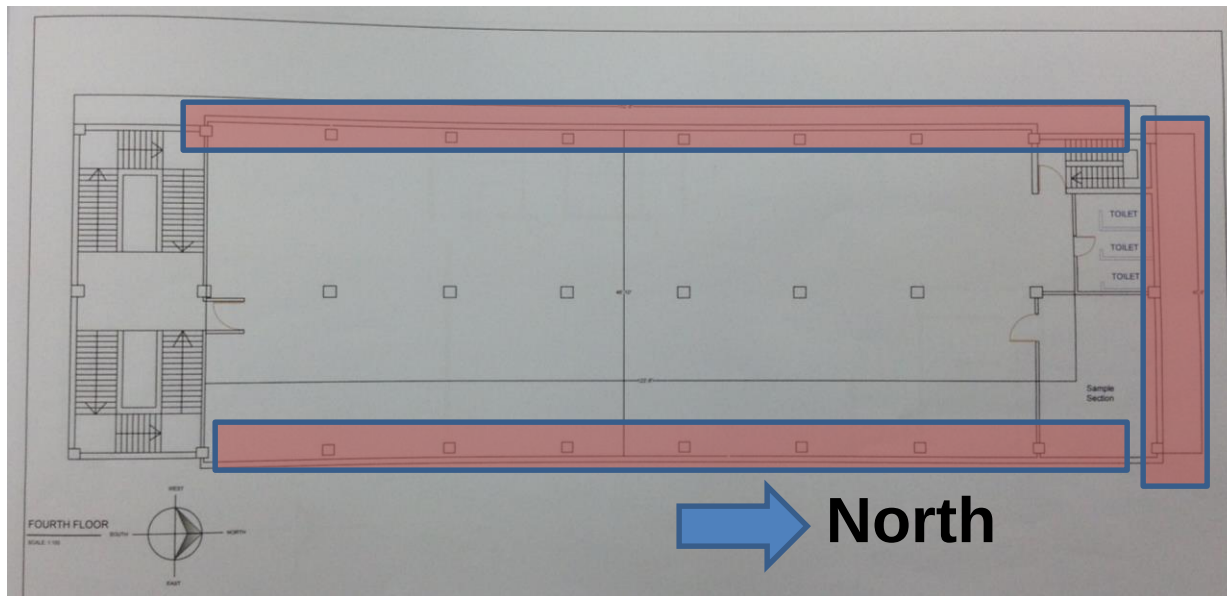
Observations

Heavily-loaded column in toilet area



Column in toilet area appears to be loaded in excess of normal stress limits

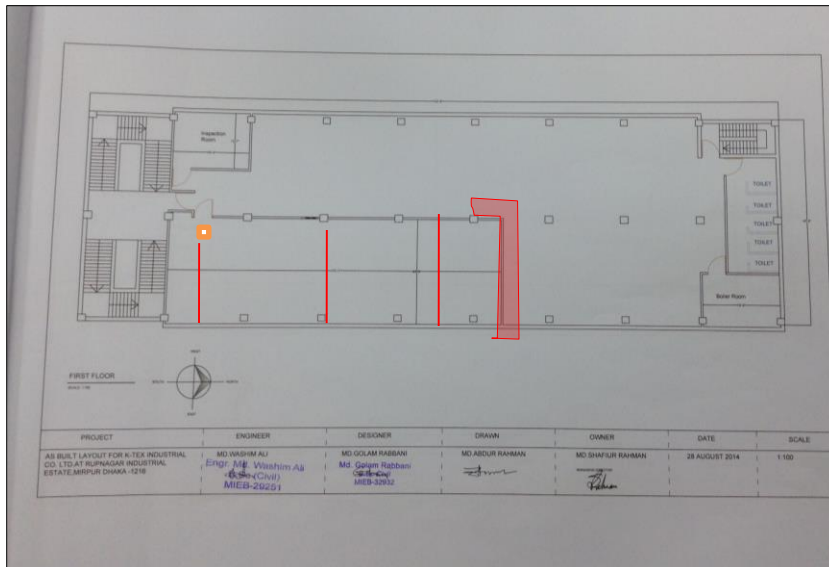
Differences between drawings and as-built structure



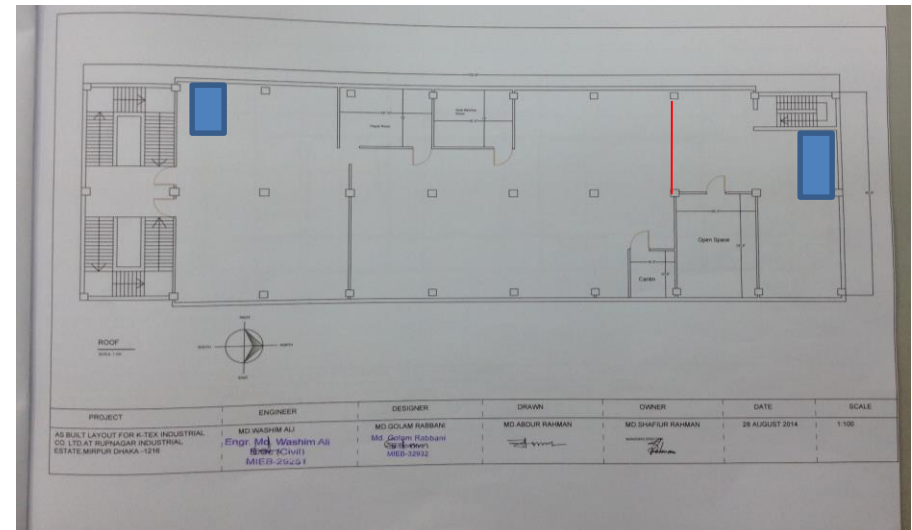
 Cantilever not mentioned in the drawing



 Cantilever



First floor plan



Roof plan



Wall layout missing



Water tank positions are missing from the drawing

Non-engineered and poorly-constructed lightweight roofs to dining area and stair cores



Poorly-constructed and non-engineered structure at roof top



Non-engineered structure at roof top



Non-engineered structure over the stair core

**Water tanks on roof at rear, empty at
time of inspection**



Water tanks were empty at the time of inspection.

1 1500 litres each



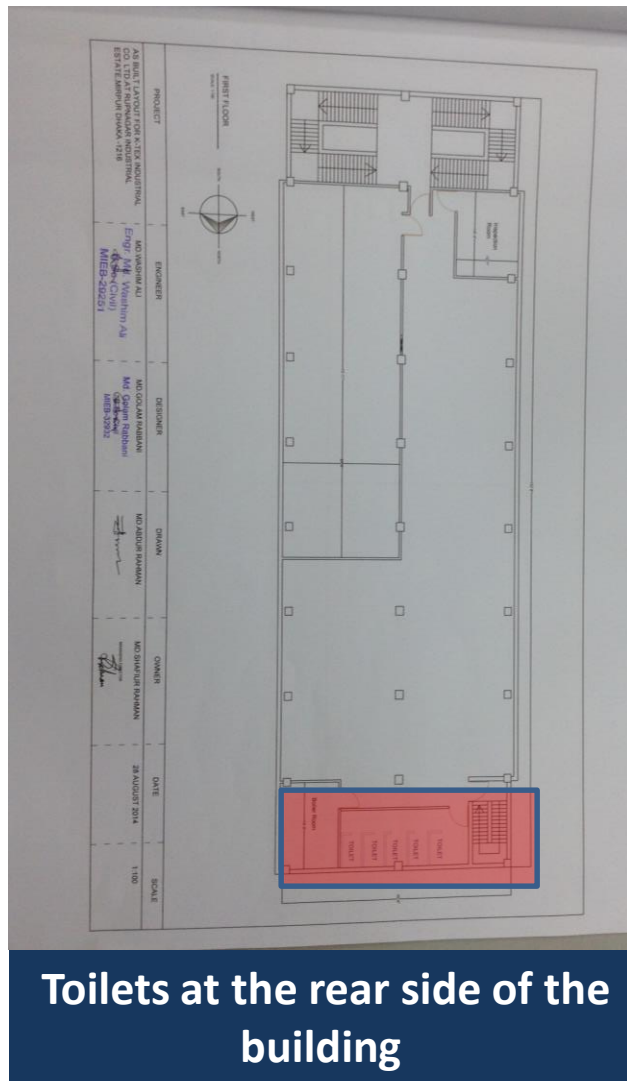
Water tanks on the rear side (Empty)

1 1000 litres **4** 1500 litres

2 1500 litres **5** 1500 litres

3 500 litres

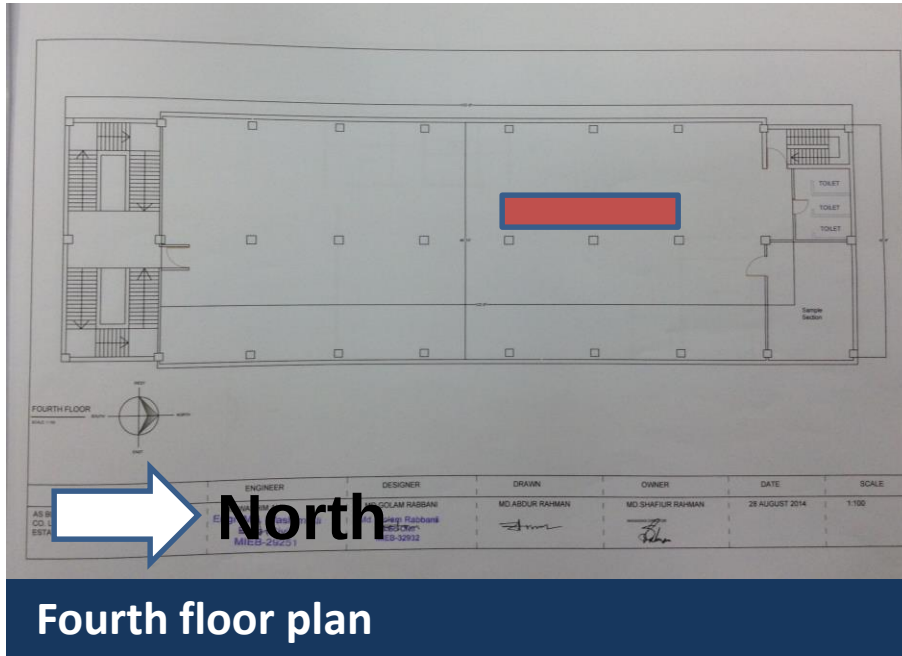
**Heavily-loaded cantilever slab due to
build-up in toilet area in rear of the
building**



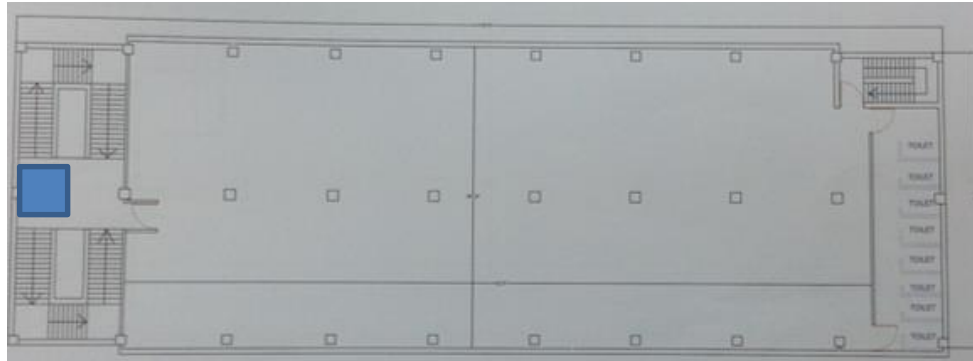
North



Storage of fabric on 4th floor



Poorly-fixed hoist on the roof



Hoist position on the roof



Hoist on the front side of the roof

Problems Observed

ITEM 1: Columns at ground floor level appear to be stressed in excess of normal design limits

ITEM 2: Differences between drawings and as-built structure

ITEM 3: Non-engineered and poorly-constructed lightweight roofs to dining area and stair cores

ITEM 4: Water tanks noted on roof at rear, empty at time of inspection

ITEM 5: Heavily-loaded cantilever slab due to build-up in toilet area in rear of the building

ITEM 6: Storage of fabric on 4th floor

ITEM 7: Poorly-fixed hoist on the roof

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Columns at ground floor level appear to be stressed in excess of normal design limits	Building Engineer to review design, loads and columns stresses in area identified in full report.	6-weeks
2	Columns at ground floor level appear to be stressed in excess of normal design limits	Verify insitu concrete strengths (using min. 4 no. 100mm dia. Cores) and existing reinforcement for all columns.	6-weeks
3	Columns at ground floor level appear to be stressed 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 at ground floor level appear to be stressed in excess of normal design limits	Building Engineer to confirm that column strengths and reinforcement surveys show the columns as adequate for loading as shown in loading plans.	6-months
5	Columns at ground floor level appear to be stressed in excess of normal design limits	Implement load management plan	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
6	Differences between drawings and as-built structure: * Cantilevered suspended floor on sides and rear * Wall layout on floors * Rooftop water tank locations	Building Engineer to survey as-constructed building	6-weeks
7	Differences between drawings and as-built structure: * Cantilevered suspended floor on sides and rear * Wall layout on floors * Rooftop water tank locations	Amend structural drawings to reflect as-constructed floor plates	6-weeks
8	Differences between drawings and as-built structure: * Cantilevered suspended floor on sides and rear * Wall layout on floors * Rooftop water tank locations	Update loading plan (ref. Item 1) as required.	6-months
9	Non-engineered and poorly-constructed lightweight roofs to dining area and stair cores	Building Engineer to review the structure to the dining room and the stair core roofs.	6-weeks
10	Non-engineered and poorly-constructed lightweight roofs to dining area and stair cores	Building Engineer to review the structure to the dining room and the stair core roofs. Structure to be replaced or altered on the basis of the engineering review.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
11	Water tanks noted on roof at rear, empty at time of inspection	Keep water tanks empty (as on the day of the inspection)	6-weeks
12	Water tanks noted on roof at rear, empty at time of inspection	Keep water tanks empty	6-months
13	Water tanks noted on roof at rear, empty at time of inspection	Remove tanks	6-months
14	Heavily-loaded cantilever slab due to build-up in toilet area in rear of the building	Building Engineer to review the loading on the cantilever slab in the toilet area	6-weeks
15	Heavily-loaded cantilever slab due to build-up in toilet area in rear of the building	Carry out any remedial works arising from the engineering review	6-months
16	Storage of fabric on 4th floor	Continue to restrict loading on floors to 2kPa.	6-months
17	Poorly-fixed hoist on the roof	Hoist to be removed from the roof	6-months