

KS Apparels Ltd.

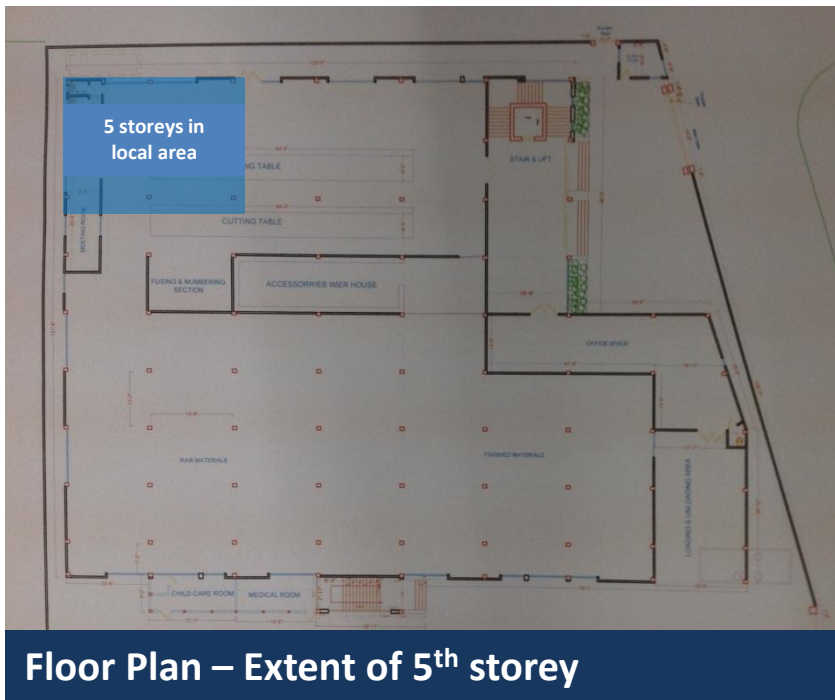
Bahadurpur, Kaultia, Gazipur
(24.07735N, 90.36604E)

18 May 2014



Observations

Columns, which support the 5 storey area of the factory, appear to be stressed in excess of normal design limits



Checked Ground Floor Column – Brick Chips

Outline calculations indicate that columns, which support the 5 storey area of the factory, appear to be stressed in excess of normal design limits

Building Engineer to perform detailed calculations and concrete tests to prove adequacy of column sizes, and (if required):

- Reduce loads by vacating floors
- Reinforce columns

Management of floor loads and water tank loads at roof level



**2 No. 2000 litre water tanks
on the roof in different
locations**



**Building Engineer to prepare
controlled loading plans, based on
floor slab and column capacity, for
all floors which will designate
allowable storage density and where
storage may be placed.**

Load Management

Any proposed additions to the existing building structure, including additional storeys, should be reviewed by the Building Engineer.

Permit for a total of 7 storeys



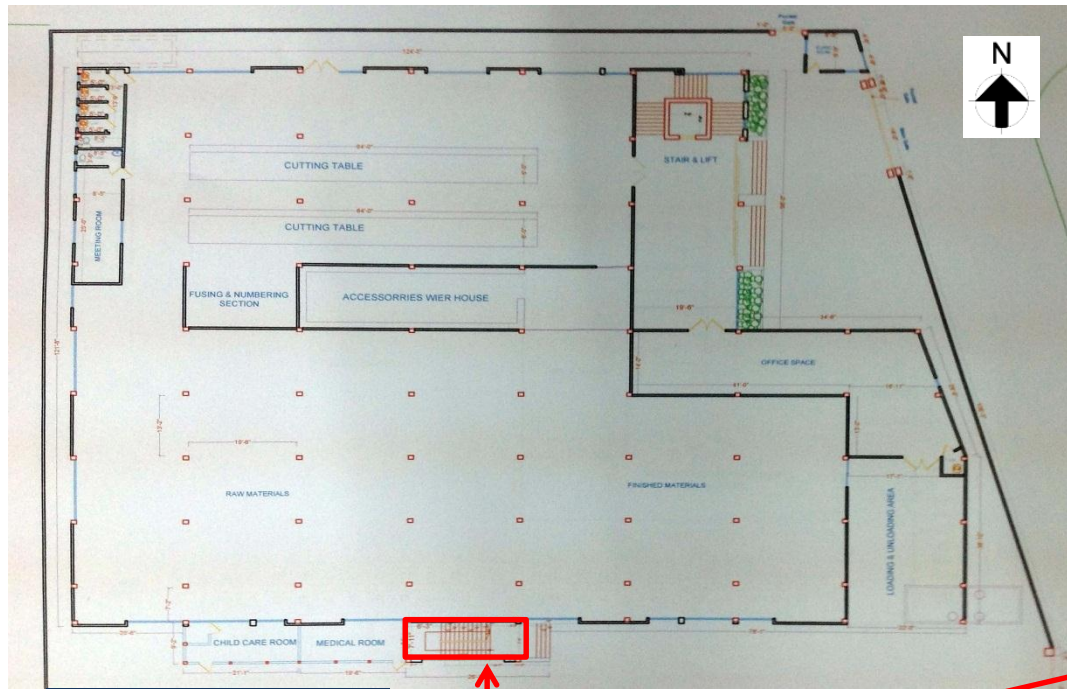
Existing structure – 4 & 5 storeys



Part 4 & 5 storeys currently constructed, permit drawing allows 7 storeys. Building Engineer to review structural design and concrete strength within existing columns prior to commencing construction of any further building extension above the existing.

Non Structural Observation

**No handrails are provided on the stairs
from 3rd floor to roof**



Typical Floor Plan

Stairs at south side of the building



No handrails are provided on the stairs from 3rd floor to roof. For safety reasons we recommend that a handrail be provided to this stairs which is currently not generally used by factory workers.

Handrail to South Stairs

Priority Actions

Problems Observed

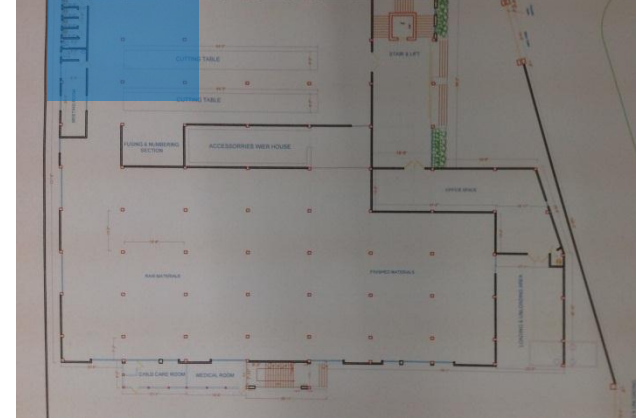
ITEM 1: Columns, which support the 5 storey area of the factory, appear to be stressed in excess of normal design limits

ITEM 2: Management of floor loads and water tank loads at roof level

ITEM 3: Any proposed additions to the existing building structure, including additional storeys, should be reviewed by the Building Engineer.

Item 1 and actions

Columns, which support the 5 storey area of the factory, appear to be stressed in excess of normal design limits



Priority 1

(Immediate - Now)

- None required

Priority 2

(within 6-weeks)

- Factory Engineer to review design, loads and column stresses in area identified above.
- Verify insitu concrete strengths (using min. 4 no. 100mm dia. Cores) and existing reinforcement for all columns.
- Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor capacity and column capacity.

Priority 3

(within 6-months)

- Continue to implement load management plan

Item 2 and actions

Management of floor loads and water tank loads at roof level

Priority 1

(Immediate - Now)

- None required

Priority 2

(within 6-weeks)

- Produce and actively manage a loading plan for all floor plates and the roof of the factory giving consideration to floor capacity and column capacity.

Priority 3

(within 6-months)

- Continue to implement load plan

Item 3 and actions

Any proposed additions to the existing building structure, including additional storeys, should be reviewed by the Building Engineer.

Priority 1

(Immediate - Now)

- None required

Priority 2

(within 6-weeks)

- None required

Priority 3

(within 6-months)

- If any additions to the building structure are proposed, the Building Engineer shall provide calculations showing the structural adequacy of all columns taking into account any additions to the existing structure, the loading plans and as built structure, including insitu concrete strength testing.