

Esquire Sweaters Ltd

Hossain Ahmed Road (Opposite Police Line), Fatullah, Narayangonj -1400.
(23.632928N, 90.484156E)

15th February 2015

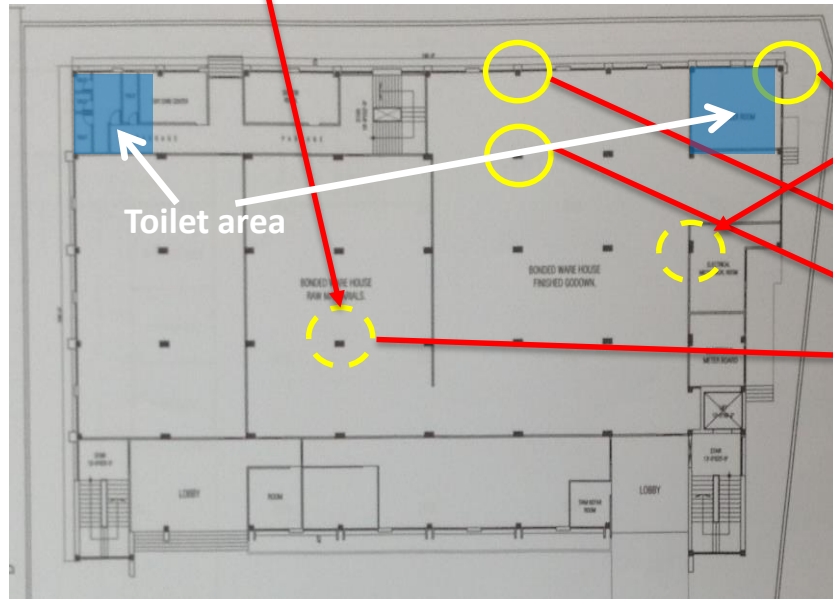


Observations

Column Stresses

Column selected to expose aggregate (stone) at Ground Floor.

Column selected to expose aggregate (brick) at 1st Floor.



Ferrosan agrees with drawings.

Cursory calculations indicate that the working stress in columns supporting toilets and water tanks at are at a high level - refer to Action 1.
Building Engineer to verify in-situ concrete strength and confirm grade of steel reinforcement used.



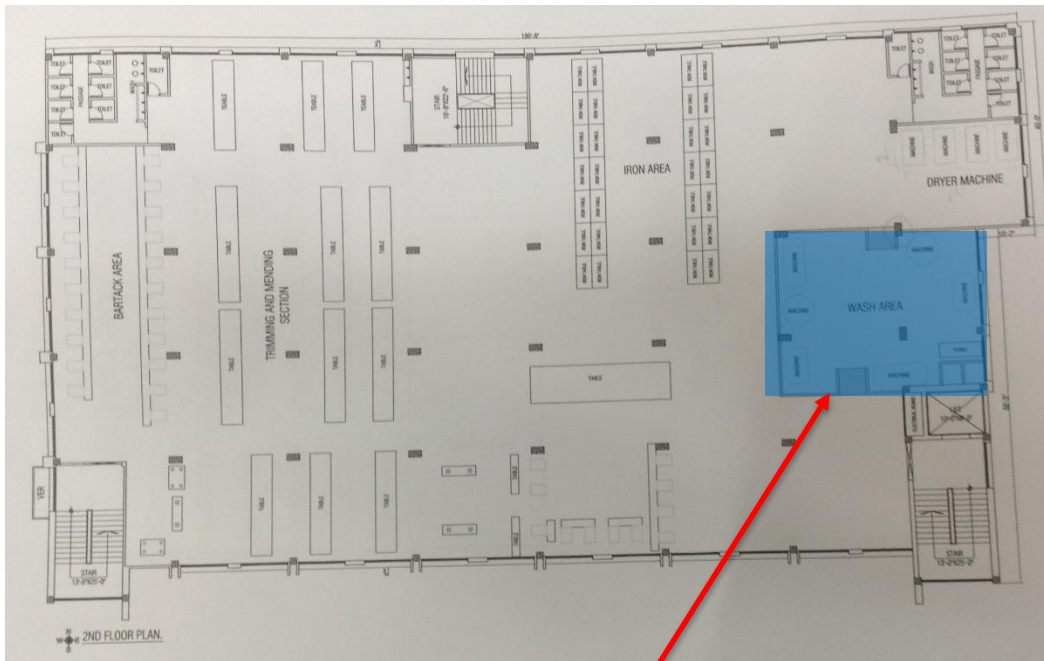
Stone Aggregate
(Ground Floor)



Brick Aggregate
(1st floor)

Column Stresses

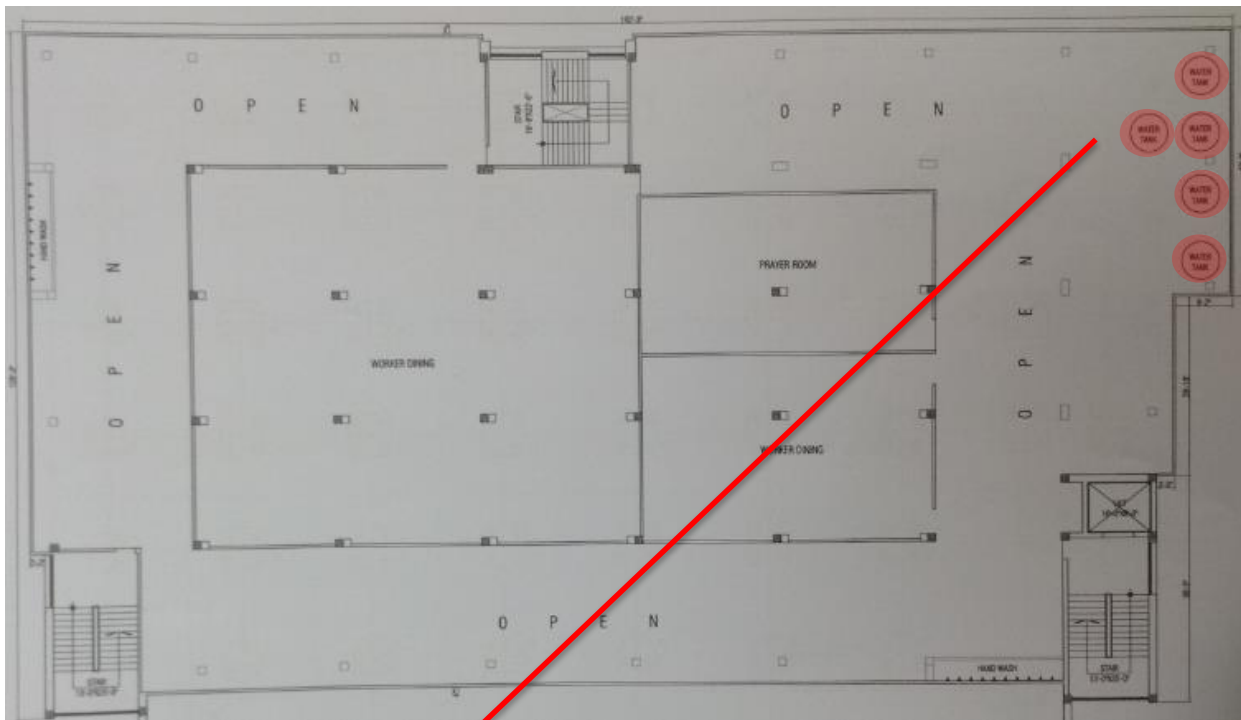
Heavy Loads on Slabs



Concrete screed slab
(125mm) and 125mm sand
build-up in wash area



Floor Loading



Loading on
roof



5 Water tanks observed at the roof - each 5000 litres

Roof Loading

Cracking in beams



Cracks in beams at underside of 5th and 6th floor slab

Observations

Priority Actions

Problems Observed

ITEM 1: Column Stresses

ITEM 2: Heavy Slab Loading

ITEM 3: Cracking in beams

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Column Stresses	Factory Engineer to review design, loads and columns stresses in all columns.	6-weeks
2	Column Stresses	Factory Engineer to verify insitu concrete strength by taking 100mm diameter cores from min. 4 no. columns. Verify grade of steel reinforcement used.	6-weeks
3	Column Stresses	Make any structural alterations as advised by Engineer.	6-months
4	Heavy Slab Loading	Factory Engineer to carry out checks on beam and slab capacity in heavily-loaded areas.	6-months
5	Heavy Slab Loading	Factory Engineer to prepare Loading Plans for floors and roof based on column capacity and beam/slab capacity.	6-months
6	Cracking in Beams	Factory Engineer to expose the perimeter surface of the concrete beam in a number of locations to determine if the cracking extends into the beam, and make recommendations for remedial measures if required.	6-months
7	Cracking in Beams	Carry out remedial work if required.	6-months