

Tusuka Jeans Ltd. (Unit-2)

Konabari, Neelnagar, Gazipur
(24.0108529N,90.3245044E)

18th January 2017

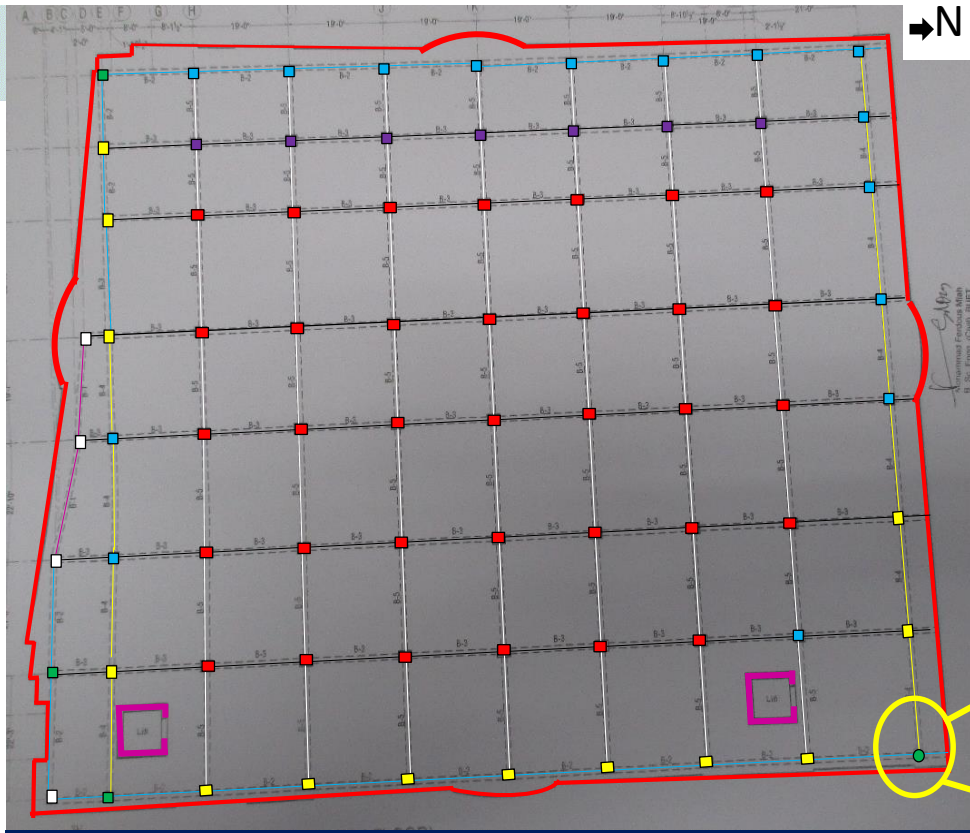




Observation

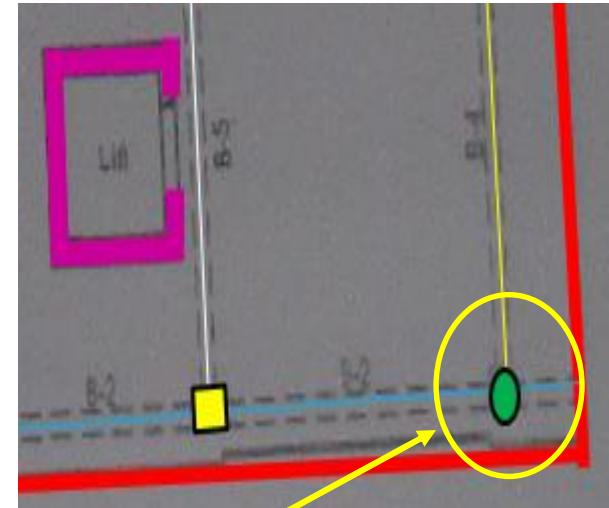


Discrepancy between provided drawing and as constructed condition

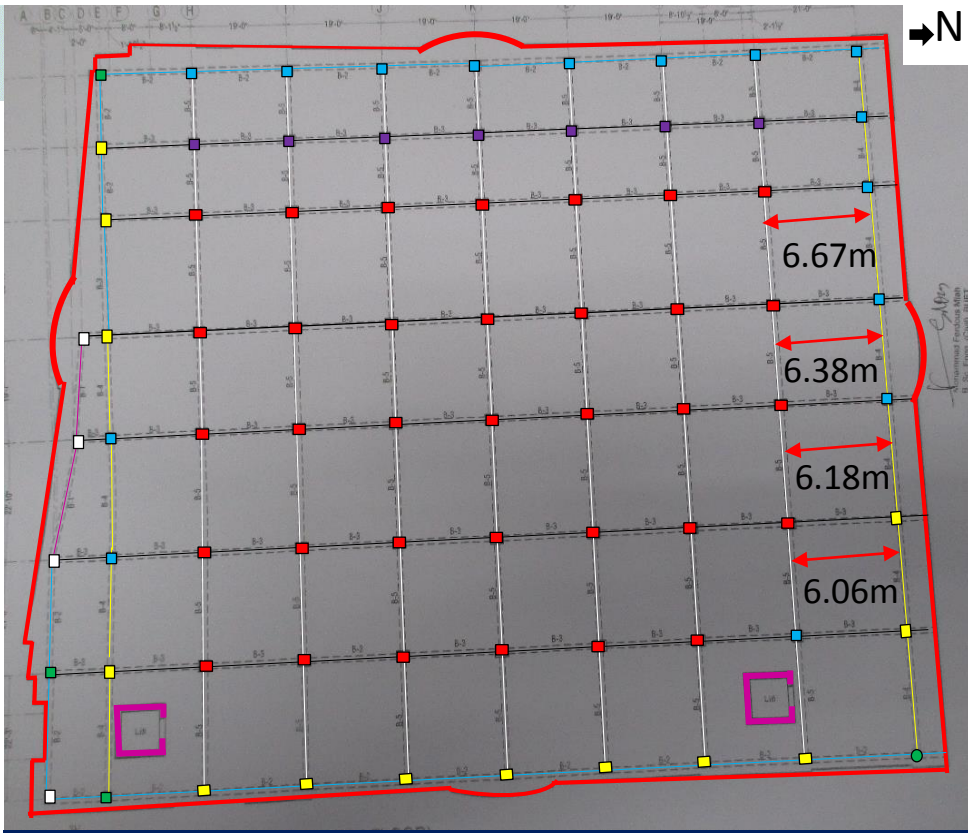


Typical beam Column Layout (Ground floor)

Highlighted column was shown as C-5 (500mmX500mm) at all level in column schedule. However, at Ground floor this column was found as circular column of 700mm diameter. Factory engineer to update as-built drawing reflecting the as constructed condition.



Discrepancy between provided drawing and as constructed condition



Typical beam Column Layout (1st to 8th floor)

Grid dimension varies at north most bay. The dimension didn't match with the provided drawing. The length of the grid decreases from west to east direction.



2nd floor most north bay

Discrepancy between provided drawing and as constructed condition



Load plan was not followed



Storage at 1st floor

At the time of inspection load plan was posted in every floor plate and typical loading limit was shown as 4 KN/m² in the load plan. Load marking was also observed in the storage areas. However, at 1st floor storage area live load was observed around 5 KN/m² and at 2nd floor storage area live load was observed around 4.5 KN/m² which exceed the loading limit of existing load plan. Factory management to reduce existing load to 4 KN/m² in those area and make sure the existing load plan and height are followed strictly.



Storage at 2nd floor

Load plan was not followed



Water ingress through ground floor slab



Water ingress at basement through Ground Floor slab



Water ingress at basement through Ground floor slab under washing area of Ground floor. Factory engineer to investigate the cause of water ingress and repair accordingly.



Washing area of Ground floor

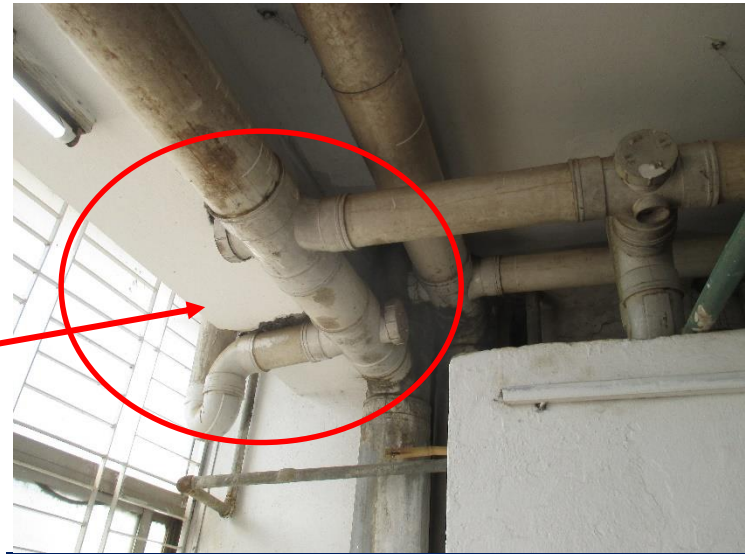
Water ingress through ground floor slab



Damaged beam in toilet area



Bottom rebar was found exposed



Beam damage at West side Toilet area on 4th floor

Damage found under beam at west side toilet area on 4th floor which may cause possible corrosion. Factory to take steps to protect possible corrosion according to suggestion given by the factory engineer.



Hole on shear zone at 4th floor

Damaged beam in toilet area



Non engineered shed at 8th floor



Non engineered canopy at 8th floor level

Steel shed at 8th floor was appeared to be Non engineered.
Factory engineer to prepare assessment report for the shed.



Purlin Wall joint



Non engineered connection of shed on 8th floor



Non engineered connection of shed on 8th floor

Non engineered shed at 8th floor



Problems Observed

- Item 1: Discrepancy between provided drawing and as constructed condition
- Item 2: Load plan was not followed
- Item 3: Water ingress through ground floor slab
- Item 4: Damaged beam in toilet area
- Item 5: Non engineered shed at 8th floor



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Discrepancy between provided drawing and as constructed condition	Produce accurate as built documentation reflecting existing condition	6-weeks
2	Load plan was not followed	Factory management to reduce existing load to 4 KN/m ² in those area and make sure the existing load plan and height are followed strictly.	6-weeks
3	Water ingress through ground floor slab	Factory engineer to investigate the cause of water ingress.	6-weeks
4	Water ingress through ground floor slab	Implement any remedial work accordingly.	6-months
5	Damaged beam in toilet area	Factory to take step against possible corrosion according to the suggestion by the factory engineer.	6-weeks
6	Non engineered shed at 8th floor	Factory engineer to prepare assessment report for both non engineered sheds.	6-weeks
7	Non engineered shed at 8th floor	Produce accurate as built documentation reflecting existing condition.	6-weeks
8	Non engineered shed at 8th floor	Implement any remedial work raised from the assessment.	6-months