



Faiza Industries Ltd.

R.S - 425, Baimail, Konabari, P.O.- Kashem Cotton Mill, Thana- Joydebpur,, Gazipur 1346
(24.006652, 90.337365)

15th June 2017





Observations

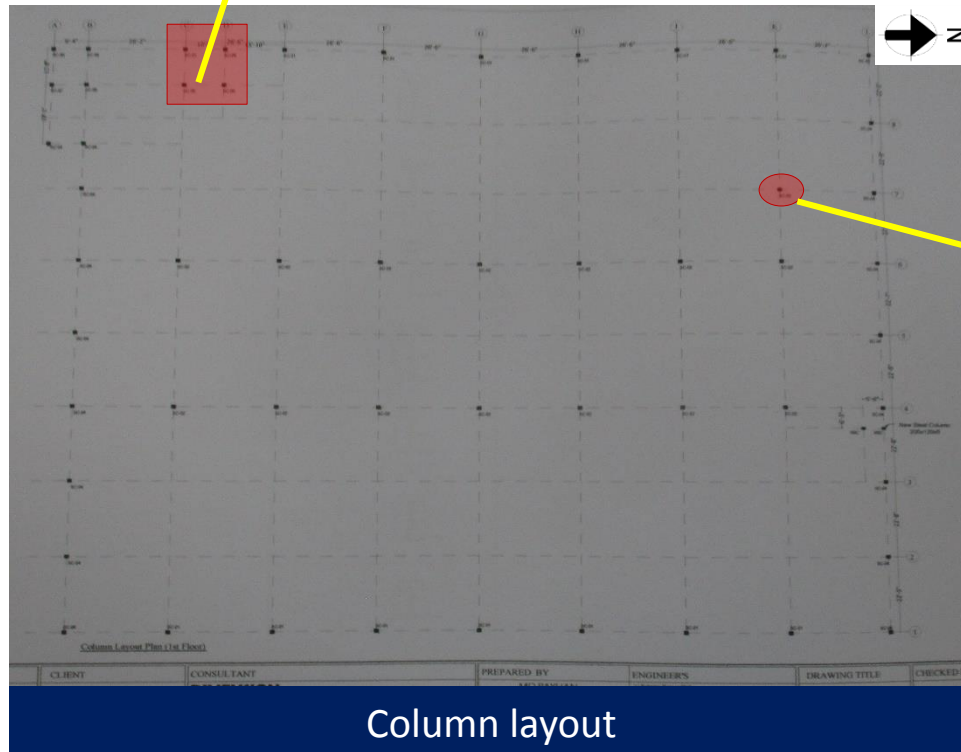


Discrepancies between drawings and on site condition

Observation : Production Shed



Misplaced Column



Column layout



Missing Column



Column, main beam & sub-beam sizes were not fully matched with provided drawings. Building engineer is required to survey the as built condition and produce as built drawings.



STEEL COLUMN SCHEDULE			
COLUMN SECTION INDEX	Ground floor	1st floor(Bottom)	1st floor(Top)
SC1			
SC2			
SC3			
SC4			
SC5			
SC6			
SC7			

Column Schedule

STEEL MAIN BEAM SCHEDULE		STEEL SUB BEAM SCHEDULE	
BEAM SECTION FOR INDEX	Ground Floor	BEAM SECTION FOR INDEX	Ground Floor
MB1		SB	
MB2		SB-1	
MB2A		SB-2	
MB3			

Beam size



Observation : Production Shed



Improper connection

Observation : Production Shed



Tear on column-rafter joint



Additional steel plate added to support rafter

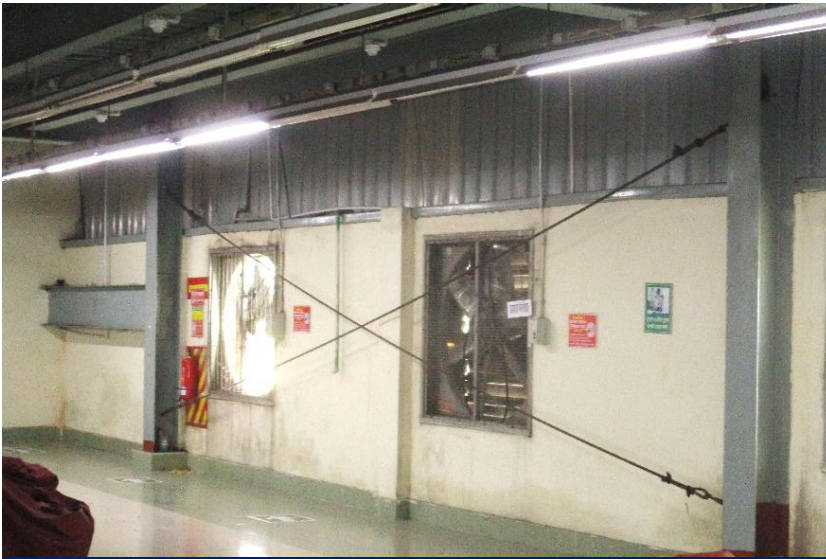


Rafter is not connected properly with column at North side of the production shed.



Loose and poor connection of bracing

Observation : Production Shed



Loose wall bracing



Poor bracing connection

Loose bracing were observed during inspection. Cable bracings were not properly connected with column.





Lack of lateral load resisting system

Observation : Production Shed



Lateral load transferring system (compression strut) was not observed on roof. Factory engineer to check the lateral stability system of the building against lateral loading.

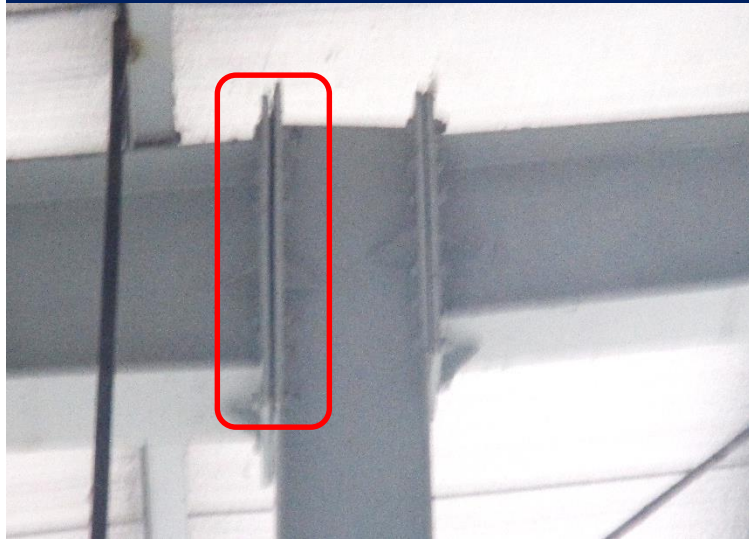


Gap between beam-column joint

Observation : Production Shed

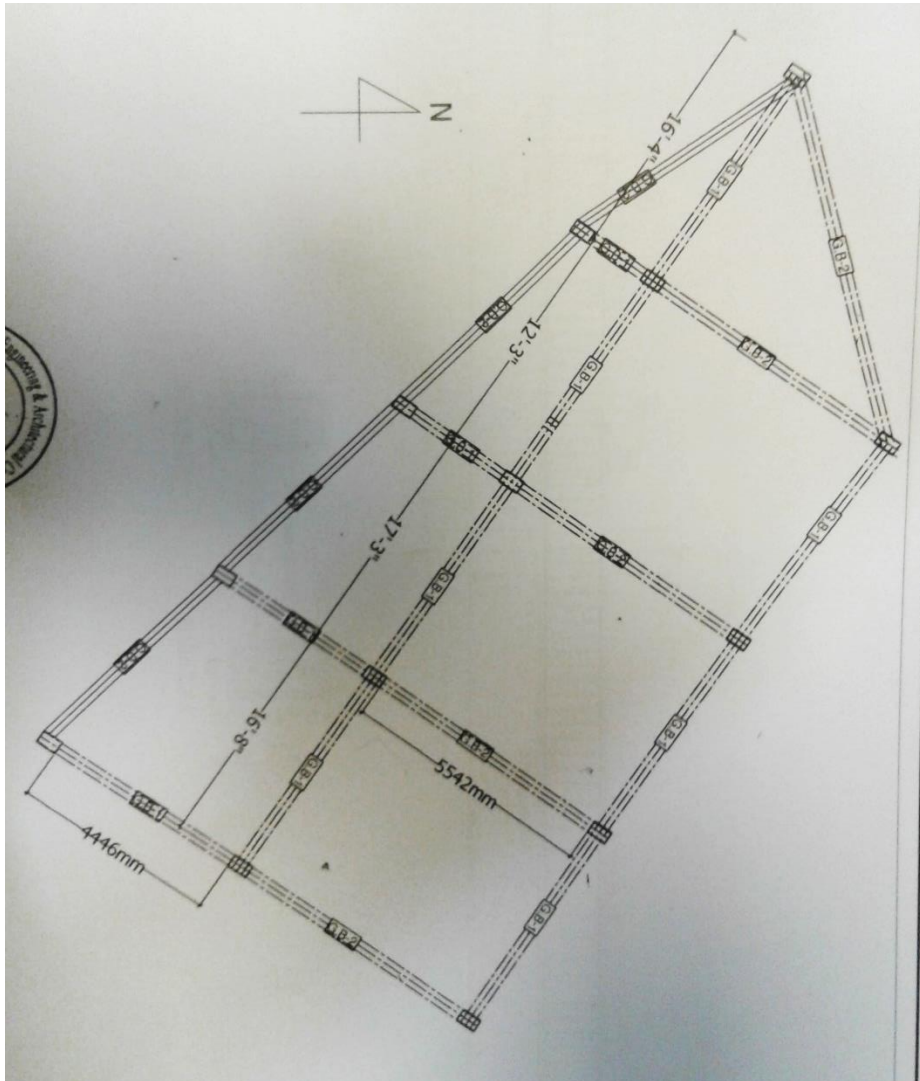


Existence of significant gap in several connection.





Mismatch in drawings



Layout plan

Grid dimension didn't fully match with provided drawing of Generator shed.





Problems Observed

Production Shed:

- Item 1: Discrepancies between drawings and on site condition.
- Item 2: Improper connection.
- Item 3: Loose and poor connection of bracing.
- Item 4: Lack of lateral load resisting system.
- Item 5: Gap between beam-column joint.

Utility Building-1:

- Item 6: Mismatch in drawings.



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	(Production Shed) Discrepancies between drawings and on site condition	Engage an Engineer to produce an “as constructed” drawings which reflect the actual site dimensions with complete structural information.	6-weeks
2	(Production Shed) Improper connection	Qualified Structural Engineer to investigate the connection of steel joint and suggest necessary remediation.	6-weeks
3	(Production Shed) Improper connection	Remedial works to be carried out.	6-months
4	(Production Shed) Loose and poor connection of bracing.	Upgrade the connection of bracings.	6-weeks
5	(Production Shed) Loose and poor connection of bracing.	Tighten loose bracings.	6-weeks
6	(Production Shed) Lack of lateral load resisting system	Building engineer to check the lateral stability of the building against lateral loading.	6-weeks
7	(Production Shed) Lack of lateral load resisting system	Implement the recommendation of engineering assessment.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
8	(Production Shed) Gap between beam-column joint	Engage an Engineer to check that the connections are adequate.	6-weeks
9	(Production Shed) Gap between beam-column joint	Carry out suitable repair works where necessary.	6-months
10	(Utility-1) Mismatch in drawings	Building Engineer to update as-built drawing according to actual condition.	6-weeks