



Colors & Stitches Ltd.

JL no 6, Dogri, Mirzapur, Gazipur Sadar, Gazipur

Co-ordinates: 24.093240N, 90.353497E

30th July 2019

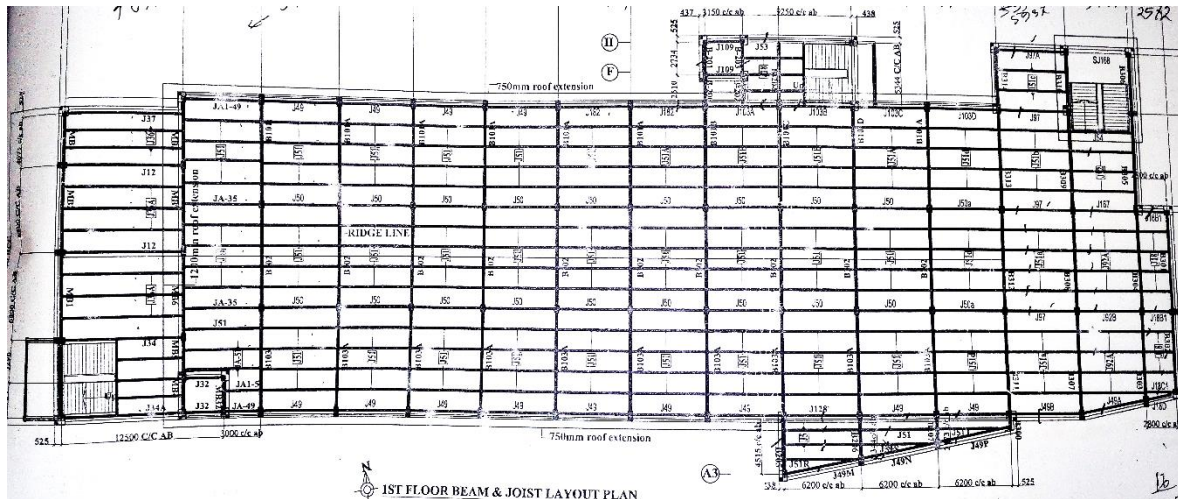




Observations



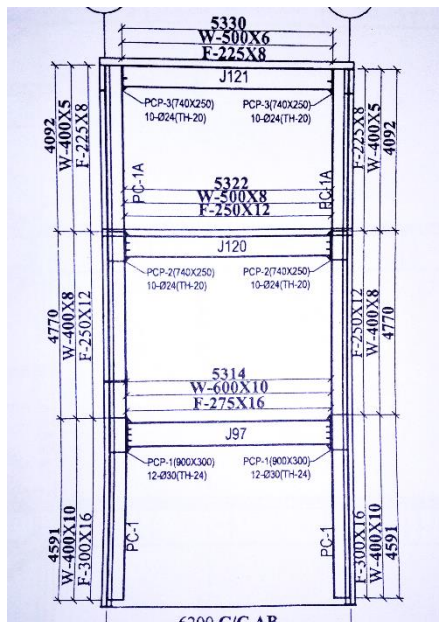
Incomplete as-built drawing



Beam & Joist layout plan



Joist on 1st floor



Portal Bracing



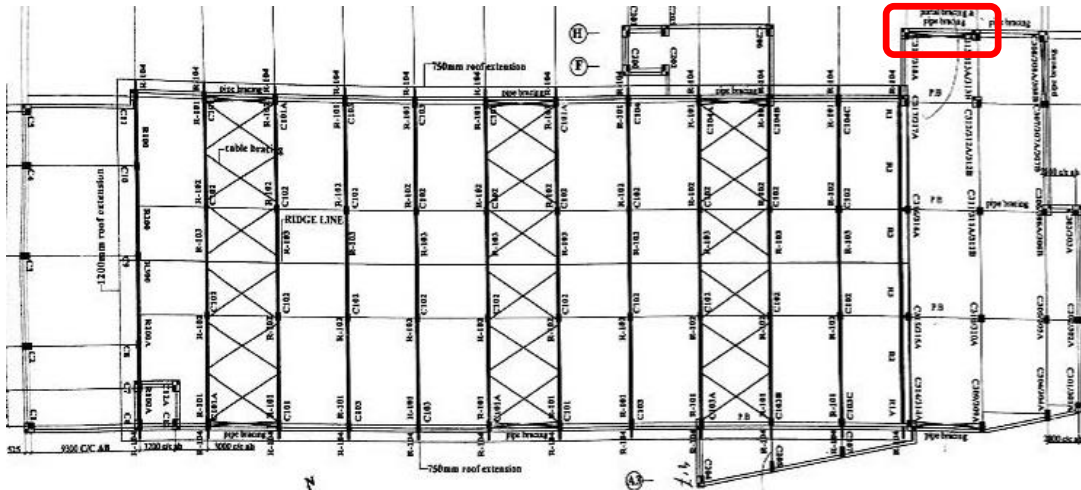
Portal Bracing on 1st floor

During inspection as-built drawings were available on site. But the dimensions of joists were not available. Again, locations of portal bracings were shown but dimensions were incorporated for any of the bracings. No connection details were provided for joists or bracings.

Observation : Main Production Building



Lateral stability and connection adequacy check



Bracing layout plan



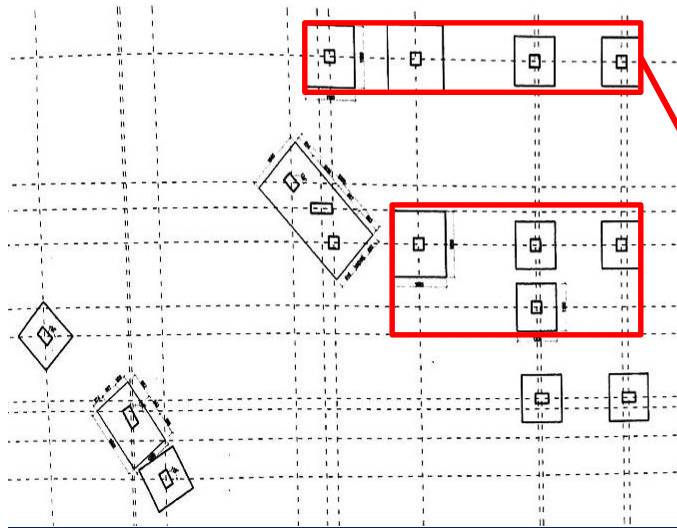
Bracing on 1st floor missing

As per provided as-built drawing, there should have a portal bracing between grid G-13 & G-14. But no portal bracing was found in that grid on site. Moreover, no connection details were provided for bracings. Factory is required to check for lateral stability and connection adequacy.

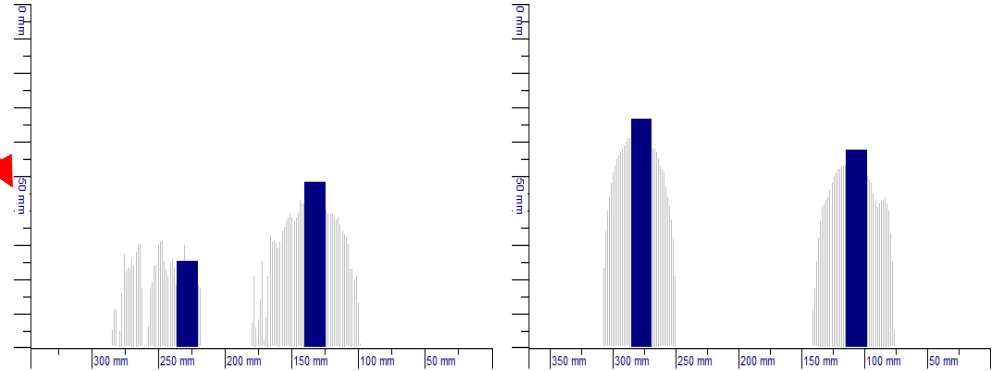


Incomplete as-built drawings

**Observations: Security Post and
Child Care & Medical**



Footing layout plan of Security Post



C1 type columns of supposed to have 6-16 mm diameter rebars but on site ferro scanning indicates that C1 type columns have 4 rebars.



No structural details were incorporated in the provided as-built drawings. Dimensions of slab and beams were not provided.

Factory is required to update as-built drawings of Security Post and Child Care & Medical.

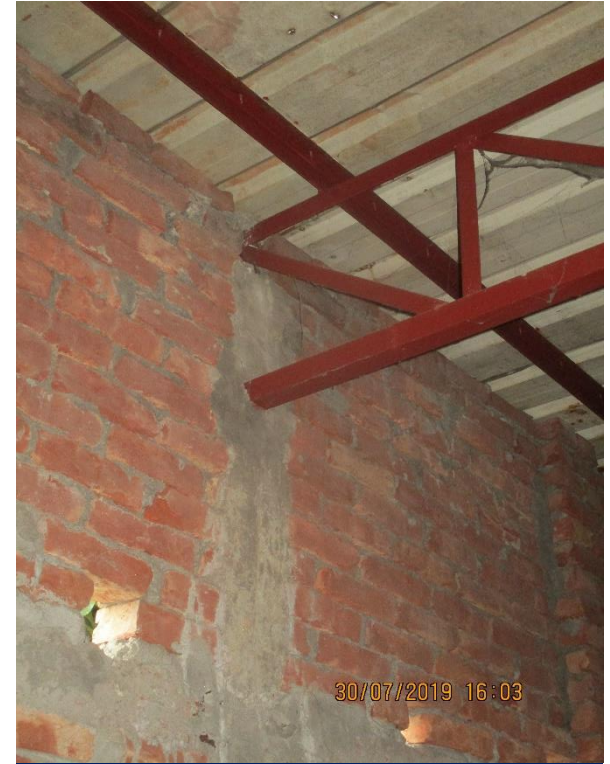
Observations: Security Post and Child Care & Medical



Apparently non-engineered shed



Light weight roof supported on peripheral wall



Non-engineered connection

Apparently non-engineered Wastage Shed. Roof truss is embedded in peripheral brick wall. Building engineer to check the stability of the lightweight roof structure against lateral loading and if inadequate then replace the structure with an engineered one.



Problems Observed

Main Production Building:

Item-01: Incomplete as-built drawing.

Item-02: Lateral stability and connection adequacy check.

Security Post and Child Care & Medical:

Item-03: Incomplete as-built drawing.

Wastage Shed:

Item-04: Apparently non-engineered shed.



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Incomplete as-built drawing. (Main Production Building)	Building Engineer to survey the whole structure and prepare accurate as-built drawings with proper connection details.	6-weeks
2	Lateral stability and connection adequacy check. (Main Production Building)	Factory engineer is required to check the stability of the building against lateral loading.	6-weeks
3	Lateral stability and connection adequacy check. (Main Production Building)	Factory engineer is required to check the adequacy of the connections.	6-weeks
4	Lateral stability and connection adequacy check. (Main Production Building)	Implement the recommendation of engineering assessment.	6-months
5	Incomplete as-built drawing. (Security Post and Child Care & Medical)	Building Engineer to survey the whole structure and prepare accurate as-built drawings.	6-weeks
6	Apparently non-engineered shed. (Wastage Shed)	Building engineer to check the lateral stability against uplift forces.	6-weeks
7	Apparently non-engineered shed. (Wastage Shed)	Carry out remedial works resulting from engineering assessment if necessary.	6-months