

S.F. Jeans Ltd.

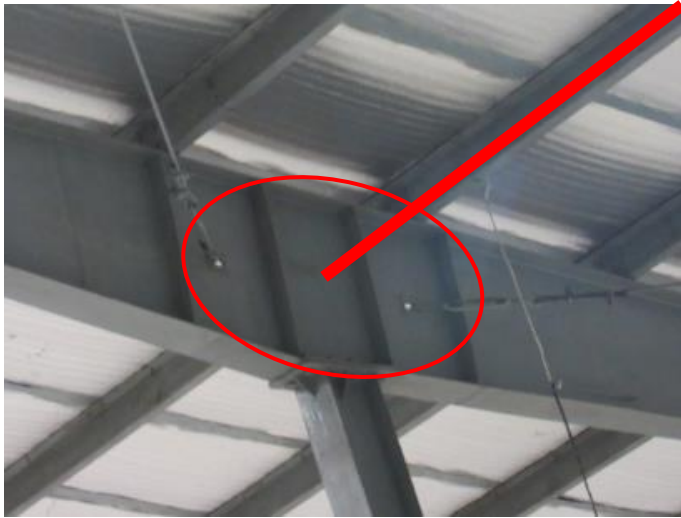
Karol Shurichala, Sofipur, Mouchak, Kaliakoir, Gazipur

(24.056106N, 90.265501E)



Observations

Defects in the steel structure



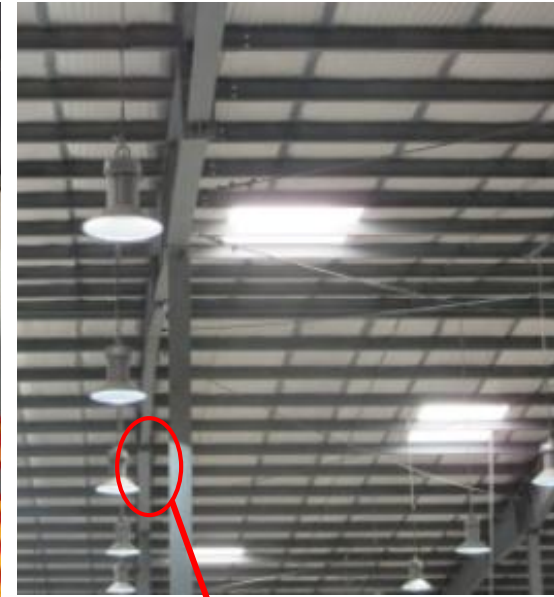
Roof bracing – no obvious compression struts



Vertical X-bracing is loose.

The bracing system should be reviewed by the Building Engineer. Some additional works may be required :

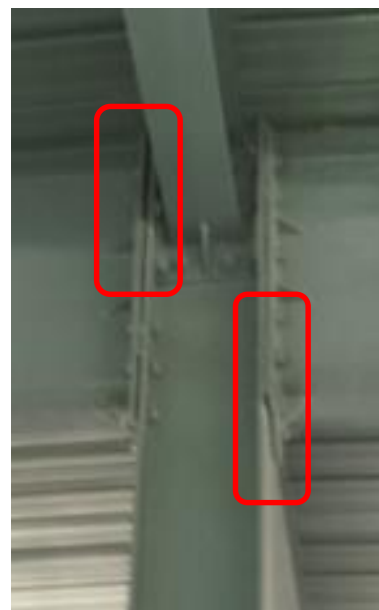
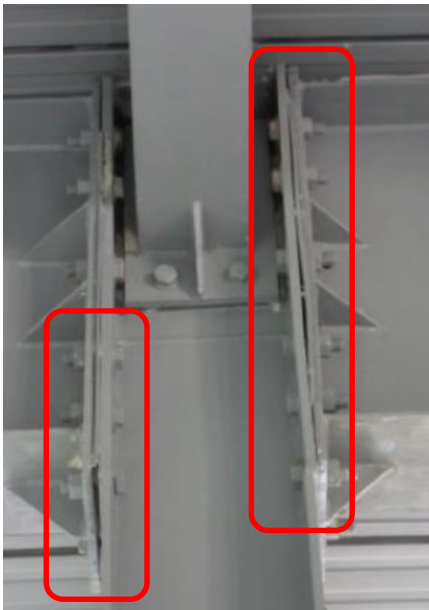
1. Tensioning of the bracing tie wires
2. Instalment of the compression struts in roof bracing



Roof girder connection appears to have rotated



Non-engineered welding of the hanging of the secondary steel work



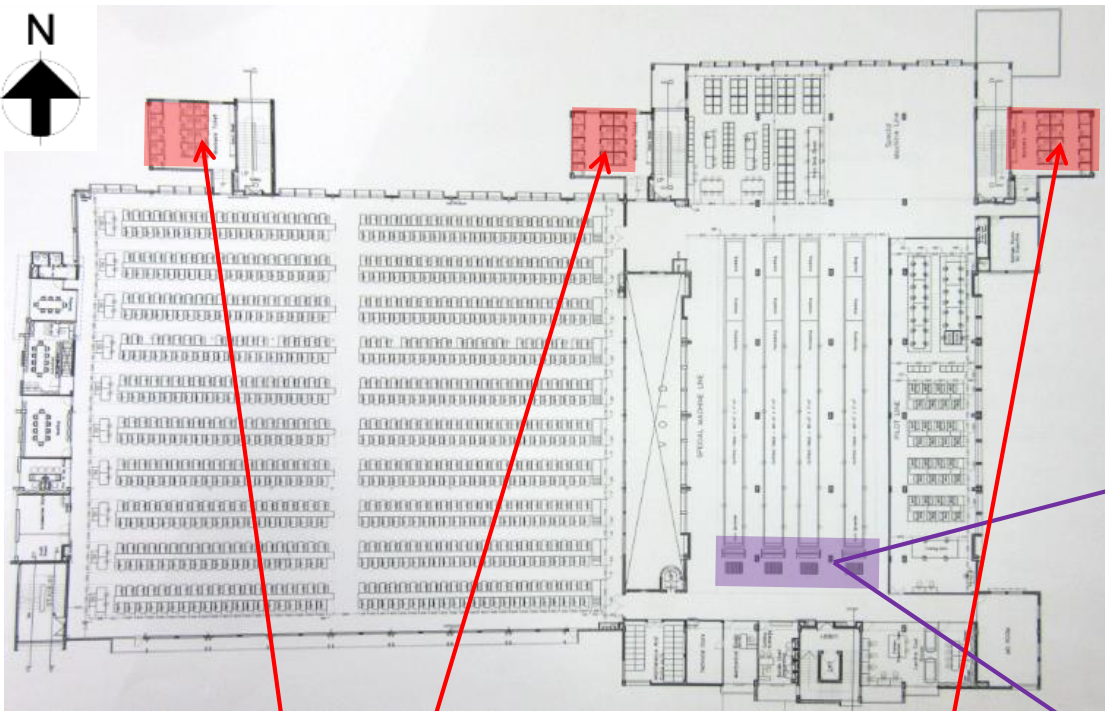
Defects (gaps and plate deformations) require design check of capacity.

Non-engineered welding of the hangers to steel beams may cause plastic defect in the tension zone of the sections.

Gaps in the bolted connections in many places, require design check

5 Observations: Defects in steelwork

Heavy floor loading



Typical floor plan



1.2 – 1.4m high stack of rolled Denim
Average load assumed 5 kPa



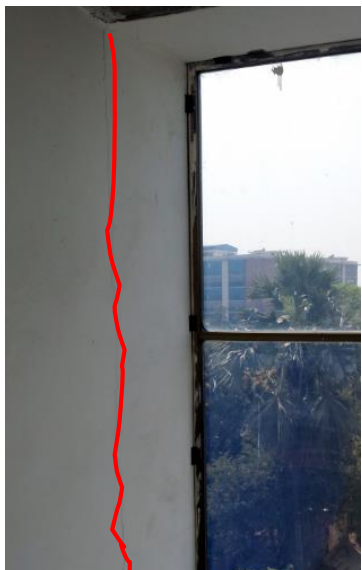
High toilet build-ups (avg. 100 mm)

7 Observations: Heavy floor loading

Cracking in brick walls



Cracks on the wall in the cantilevers. The cracks width reflects deformations, smaller in bottom , larger at top



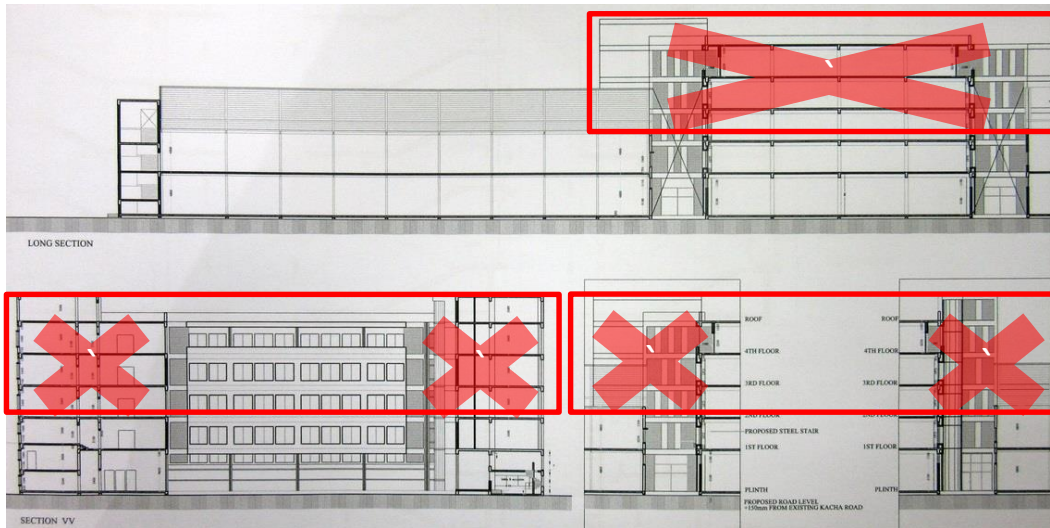
Cracks in the staircase



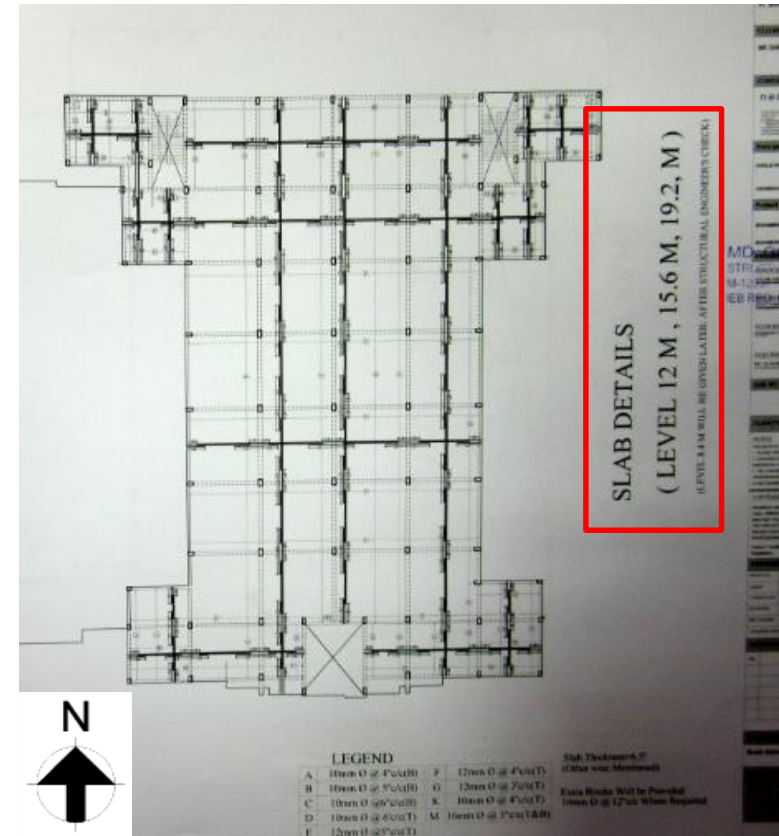
Fully cracked window pillars

9 Observations: Cracking in walls

Discrepancies between drawings and site observations



The architectural drawings showing completed building



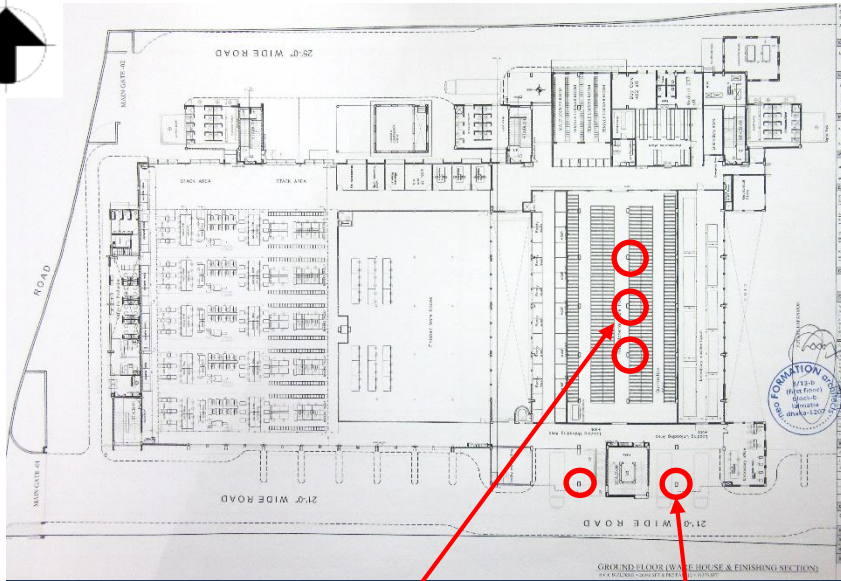
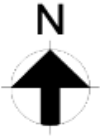
The structural as-built documentation contains details of structural slabs not yet constructed



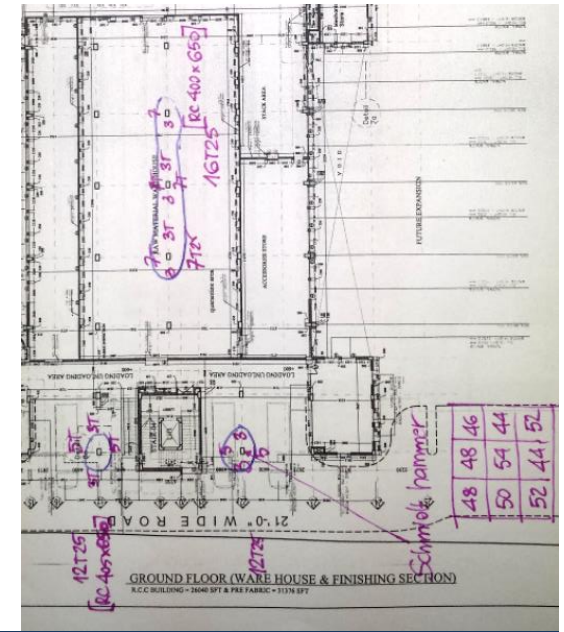
Currently there are 2 storeys built in the concrete part of the factory

Observations: discrepancies between drawings and observations

Testing



Ground floor plan



Records of Ferro scanning & Schmidt Hammer tests



Records of stone aggregate

Column testing



Priority Actions

Problems Observed

ITEM 1: Defects in steelwork

ITEM 2: Heavy loads in columns

ITEM 3: Cracks in the brick walls

ITEM 4: Discrepancies between drawings and site observations

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Defects in the steelwork	Engage Building Engineer to carry out a detailed review of the steelwork including connections and roof bracing.	6-months
2	Defects in the steelwork	Carry out any remedial work to steelwork as directed by the Building Engineer.	6-months
3	Heavy loading on floors	Engage a Building Engineer to update allowable loading plans for all floors based on column capacity (allowing for future floors) and floor beam and slab capacity.	6-months
4	Heavy loading on floors	Implement loading plans	6-months
5	Cracking in brick walls	Engage Building Engineer to investigate the cause of cracking in brickwork.	6-months
6	Cracking in brick walls	Carry out repairs as directed by Building Engineer.	6-months
7	Discrepancies between drawings and observations on site	Engage a Building Engineer to prepare up-dated as-built documentation	6-months