

Tamishna Fashion Wear Ltd. (Unit-2) (10325)

8 no., Mulaid, Sreepur, Gazipur.

(+24.243556N, 90.398349E)

06.07.2014



Identified Priority 1 Concerns

1st Priority 1 Concern



Old shed

At old shed the vertical bracings were not firmly connected with column and in some places we observed some missing bracing. The new shed has no vertical or horizontal cross bracing at all .



New shed

2nd Priority 1 Concern

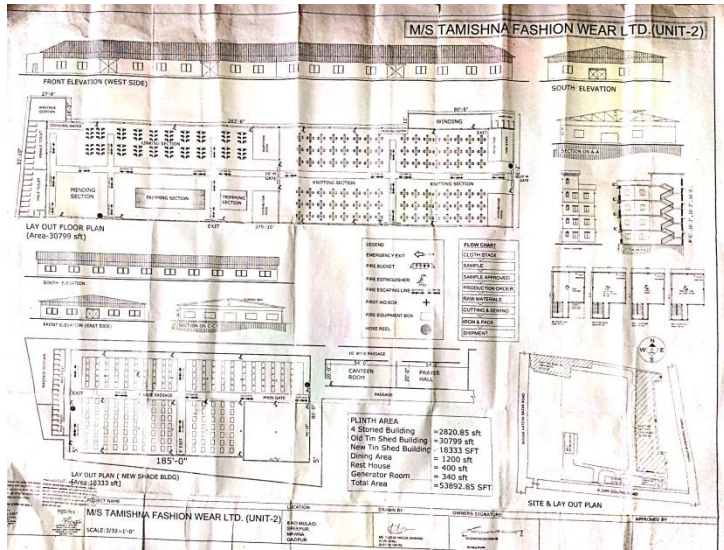


The connections of truss members with the circular column were very poor. Again the positioning of columns with respect to truss members is irregular.



Identified Priority 3 Concerns

1st Priority 3 Concern



The 4 storey building and sheds did not have any structural drawings except permit drawings. Besides that they did not have any soil report.



2nd Priority 3 Concern



Inadequate steel detailing at roofs of sheds .



3rd Priority 3 Concern



Roof with bamboo sheds and walls with bamboo posts were built inadequately as they do not have any strength against high wind pressure

Overall Stability System



The 4 storey building did not feature any core or shear walls . Stability was achieved through sway action between beams and columns and masonry infill walls .

We require that these items be investigated in an Engineering Assessment

Continued.....



Old shed



New shed

At the old shed the vertical bracing were not connected firmly and there were some missing bracing too. At the new shed there was no vertical or horizontal bracing.

We require that these items be investigated in an Engineering Assessment

Water Ingress at Roof Level



No waterproofing membrane was visible on the roof of the building. This means that any cracks in the surface finishes on the roof will allow water to seep into the concrete slab beneath the finishes, and cause corrosion of the reinforcing steel.

Priority Actions

Problems Observed Summary

- ITEM 1: (1st Priority 1) No obvious lateral stability system at sheds.**
- ITEM 2: (2nd Priority 1) The connections of truss member and the positioning of columns with truss members are irregular in the new shed.**
- ITEM 3: (1st Priority 3) No structural drawings for any building and sheds**
- ITEM 4: (2nd Priority 3) Inadequate steel detailing at roofs of ancillary buildings.**
- ITEM 5: (3rd Priority 3) Roof with bamboo sheds are built inaccurately .**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 1 - No obvious lateral stability system at sheds.	A Detail Engineering Assessment of the sheds to be carried out and in particular, lateral stability, uplift, and foundation aspects should be investigated in detail.	Immediate – Now
2	1st Priority 1 - No obvious lateral stability system at sheds.	Follow the results from the engineering assessment.	6-weeks
3	1st Priority 1 - No obvious lateral stability system at sheds.	If deemed necessary by the Factory Engineer, carry out any remedial works recommended.	6-months
4	2nd Priority 1 - The connections of truss member and the positioning of columns with truss members are irregular in the new shed.	Carry out a detailed engineering assessment of the issue mentioned above.	Immediate – Now
5	2nd Priority 1 - The connections of truss member and the positioning of columns with truss members are irregular in the new shed.	Carry out actions from detail engineering assessment.	6-weeks
6	2nd Priority 1 - The connections of truss member and the positioning of columns with truss members are irregular in the new shed.	If deemed necessary by the Factory Engineer, carry out any remedial works recommended.	6-months
7	1st Priority 3 - No structural drawings for any building and sheds	Begin a structural survey for all the buildings and sheds.	6-weeks
8	1st Priority 3 - No structural drawings for any building and sheds	Produce as built structural drawings that depict the actual site conditions.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
9	2nd Priority 3 - Inadequate steel detailing at roofs of ancillary buildings.	Carry out engineering assessment on the roofs of steel sheds.	6-weeks
10	2nd Priority 3 - Inadequate steel detailing at roofs of ancillary buildings.	If deemed necessary by the Factory Engineer, carry out any remedial works recommended.	6-months
11	3rd Priority 3 - Roof with bamboo sheds are built inaccurately.	An engineering assessment should be commenced with BNBC wind loads. Try to find appropriate strengthening measures for these structures.	6-weeks
12	3rd Priority 3 - Roof with bamboo sheds are built inaccurately.	Strengthen the roofs to meet BNBC provisions, or replace with properly engineered steel roofs.	6-months