

Farkantex Limited (10515)

Plot # 1 & 2, Sector # 5/A, CEPZ, Chittagong

(+ 22.292948N, 91.772491E)

17.MAY.2014



ACCORD
on Fire and Building Safety in Bangladesh



Identified Priority 2 Concerns

- Incomplete structural drawings of Shed 1's extension, Shed 2, Shed 3 and Shed 4
- Capacity and stability check of Shed 2's roof, Shed 3 and Shed 4

1st Priority 2 Concern

Extension of Shed 1



Shed 2 & Shed 3



There are no structural drawings of Shed 1's extension, Shed 2, Shed 3 and Shed 4.

Shed 4



2nd Priority 2 Concern



There are concerns on the roof structure elements of Shed 2 (steel purlin seems sagged), Shed 3 (no vertical steel element provided) and Shed 4 (purlin and rafter). Capacity and stability check of these items should be carried out.

Identified Priority 3 Concerns

- No fireproofing for steel structure elements (if required)

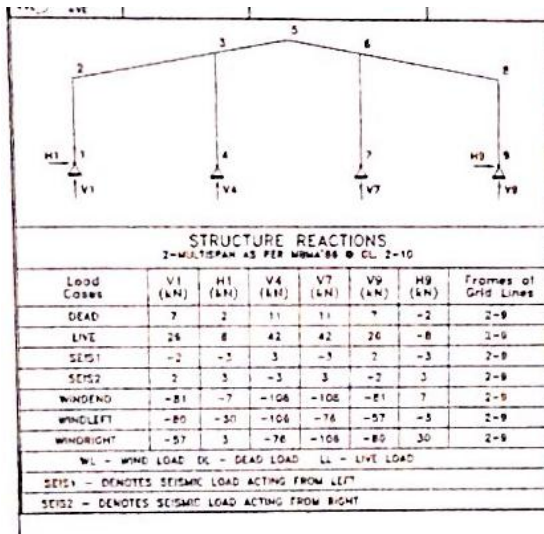
1st Priority 3 Concern



No fire proofing material is applied to the Structural steel elements. It is unclear whether this would be required by BNBC.



Overall Stability System



We were informed that lateral load was included in the design of Shed 1.

However there are concerns on the stability system for wind/seismic lateral loading as well as uplift due to wind for Shed 2, Shed 3 and Shed 4. These structures lack moment capacity in the connections between columns and beams.

We require that these items be investigated in a Detail Engineering Assessment.



Water Ingress



There are distresses due to water ingress noted on both steel structure elements and RC structure elements especially at over head water tank.



Priority Actions

Problems Observed Summary

ITEM 1:	(Priority 2)	Incomplete structural drawing of Shed 1's extension, Shed 2, Shed 3 and Shed 4.
ITEM 2:	(Priority 2)	Capacity and stability check for Shed 2's roof, Shed 3 and Shed 4.
ITEM 3:	(Priority 2)	Overall stability system.
ITEM 4:	(Priority 2)	Distress due to water ingress.
ITEM 5:	(Priority 3)	No fireproofing for steel structure elements (if required).

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Incomplete structural drawing of Shed 1's extension, Shed 2, Shed 3 and Shed 4.	Factory Engineer to survey the actual conditions and create the drawings for these items. Factory Engineer to review design, loads and columns stresses to confirm suitability for loads applied.	6-weeks
2	Incomplete structural drawing of Shed 1's extension, Shed 2, Shed 3 and Shed 4.	Produce and actively manage a loading plan for all floor plates within this area giving consideration to floor capacity and column capacity.	6-months
3	Capacity and stability check for Shed 2's roof, Shed 3 and Shed 4.	Factory Engineer to review design, loads and related elements in area identified above to confirm capacity and stability for these items.	6-weeks
4	Overall stability system.	Request that the Detail Engineering Assessment of the overall building to be carried out and in particular, stability and foundation aspects should be investigated in detail.	6-weeks
5	Distress due to water ingress.	Factory Engineer to inspect water damaged structures and repair with a suitable method.	6-weeks
6	Distress due to water ingress.	For both durability and serviceability, rustproofing is recommended. Maintain standard of quality control.	6-months
7	No fireproofing for steel structure elements (if required).	Fireproofing material for structural steel element is recommended as suggested in BNBC Codes. Maintain standard of quality control.	6-months