

Vancot Apparel Ltd.

Plot #18-20, Sector No 03, Kepz, Chittagong, Bangladesh

(22.275912E,91.793743N)

12th June 2014



Observations

Observations

Lightweight steel structures

Observations



Dining shed



Ancillary plant building roof

The dining shed structure and a canopy roof between the boiler and compressor room structures appears to be non-engineered. The main issues observed are:

- Overall stability of dining shed structure does not appear to have been considered
- Connection details between roof trusses and perimeter columns/walls appear inadequate
- Some section sizes used appear to be slender
- Connection between plant room roof and walls inadequate

Building Engineer to review stability of these structures and propose strengthening works.

Observations

Foundations exposed during excavation for fire water reservoir tank

Observations



Exposed pad footing under edge column

Construction of fire water reservoir tank underway on day of inspection. Pad footings on eastern side of building exposed during excavation.

Building engineer to confirm foundations have not been undermined.

Observations

Bolts missing & connections modified

Observations



Slotted bolt holes



Holding down bolts missing nuts

Some connections were observed to have been modified on site to facilitate frame erection. These modifications included vertical slotting of bolt holes to align beam sections. Building engineer to confirm that the residual connection capacities are sufficient to support loading. Missing nuts on holding down bolt arrangements were observed for some of the edge columns at ground floor level. All nuts are to be provided to all holding down bolt arrangements.

Observations

Water tanks over toilet blocks on each floor

Observations



500lt water tanks over toilet ceiling

500lt plastic water tanks were observed over the toilet blocks on each floor. Some flexural cracking was observed in the soffit and face of the toilet block ceiling slab under these tanks. Building engineer to check structural capacity of toilet block to carry load and propose additional strengthening works if required. Building engineer also to confirm that the structure has been designed to support toilet buildup loads.

Observations

No bracing to roof structure

Observations



No apparent bracing system provided at roof level, stability system appears to be incomplete. Building engineer to carry out a stability analysis and provide additional bracing as required.

Observations

No drawings or documentation for ancillary structures

Observations



Site Layout

	Factory Building
	Dining
	Boiler & Compressor Rooms
	Guard Building

No drawings or documentation provided for dining shed, guard buildings , boiler and compressor rooms.

Priority Actions

Problems Observed

- ITEM 1:** Lightweight steel structures
- ITEM 2:** Foundations exposed during excavation for fire water reservoir tank
- ITEM 3:** Bolts missing & connections modified
- ITEM 4:** Water tanks over toilet blocks on each floor
- ITEM 5:** No bracing to roof structure
- ITEM 6:** No drawings or documentation provided for ancillary structures

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Lightweight steel structures	Building engineer to check the capacity of non-engineered lightweight roofs under horizontal and vertical loading and make any necessary alterations.	6-weeks
2	Lightweight steel structures	Ensure all strengthening works proposed by building engineer are fully carried out.	6-months
3	Foundations exposed during excavation for fire water reservoir tank	Building engineer to confirm foundations have not been undermined in the area identified .	6-weeks
4	Bolts missing & connections modified	Building engineer to survey all connections, identify those which are not as per design, check capacity and propose remedial action if required.	6-weeks
5	Bolts missing & connections modified	Nuts to be provided to all holding down bolts.	6-weeks
6	Water tanks over toilet blocks on each floor	Building engineer to check structural capacity of toilet block to carry load and propose additional strengthening works if required.	6-months
7	No bracing to roof structure	Building engineer to carry out a stability analysis of roof structure and provide additional bracing as required.	6-months
8	No drawings or documentation provided for ancillary structures	Building engineer to update site layout plans including all structures in the factory compound. Design checks to be carried out for each of the structures.	6-months