

PROSTAR APPARELS LTD.

Potka, Kapasia Road, Gosingga, Sreepur; Gazipur
(24.183998 N, 90.487563 E)

25th October 2015



Observations

Poorly designed and constructed structural steel framing above first floor of Emroidery and Generator Building



Steel column not aligned with the centerline of portal frame

Steel column tilted out of plumb.

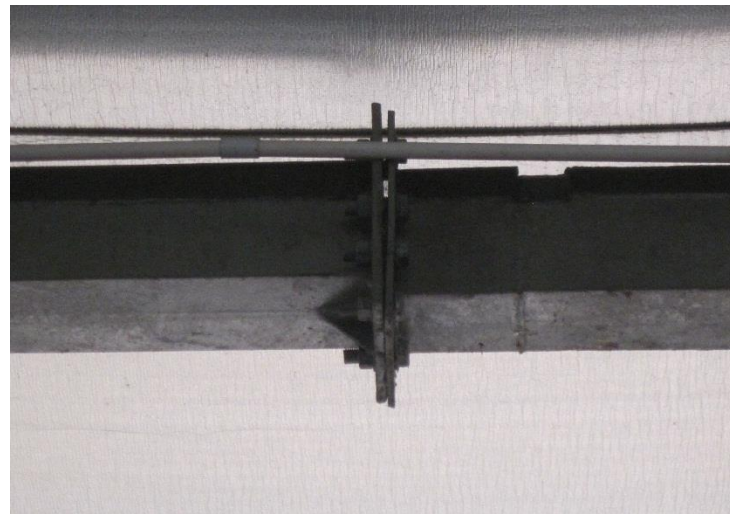
No lateral bracing to frame in any direction.
No bracing at roof level

Pin connected columns at both ends.

Lateral buckling at mid rafter



Gaps in bolted connections



Poor lateral stability of the Main Factory steel moment framing



Top plate detail – semi rigid flexible connection



Typical end plate detail of internal column

Poorly constructed steelwork connections in several locations



Missing bolts under mezzanine floor of main factory (finished good ceiling)



Lack of lateral braces in warehouse roof

Priority Actions

Problems Observed

- ITEM 1: Poorly designed and constructed structural steel framing above first floor of Embroidery and Generator Building. (Building 6)**
- ITEM 2: Poor lateral stability of the Main Factory steel moment framing. (Building 1)**
- ITEM 3: Poorly constructed steelwork connections at several locations (Buildings 1, 3 & 6)**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Poorly designed and constructed structural steel framing above first floor of Embroidery and Generator Building	As-built drawings to be prepared by Building Engineer. Stability analysis to be performed on steel frame. Install adequate bracing and steelwork connections to provide stability.	6-months
2	Poor lateral stability of the Main Factory steel moment framing (Building 1)	Lateral stability of the moment frame system to be checked by the Building Engineer. Suitable lateral stability to be provided as required.	6-months
3	Poorly constructed steelwork connections at several locations (Buildings 1, 3 & 6)	Visually inspect all connections in all steel frame buildings and rectify connections as appropriate.	6-months