

Yester Accessories Co.(Bd) Ltd

Plot-111-114, Adamjee EPZ, Siddhirganj, Narayanganj.

(23.672549N, 90.528965E)

12 March 2024

DEA



1. Building Information

Button injection: Two-storied (G+1) prefabricated steel structure.

Office Building: Three-storied (G+2) prefabricated steel structure.

Electro-Plating Building: Single-storied prefabricated steel structure with a mezzanine floor.

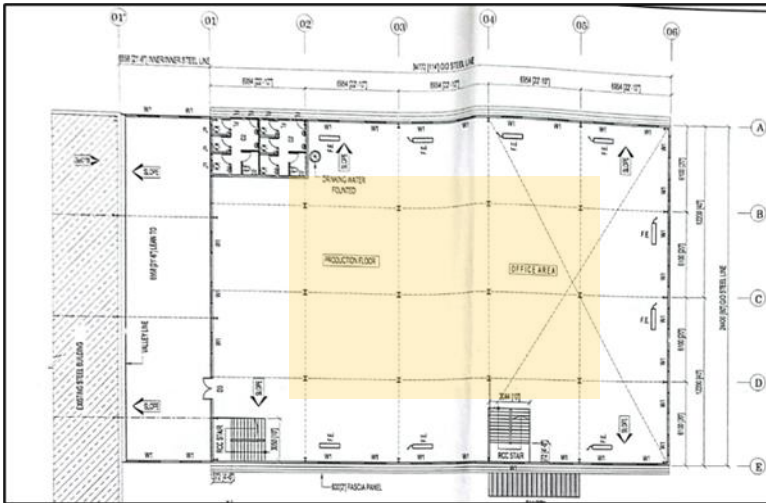
Store Building: Single-storied prefabricated steel structure with a mezzanine floor.

Security Guard & RMS Room: Single-storied reinforced concrete (RC) building.

Wastage shed: Single-storied steel shed.

2. Observations

Observation-1: High stress in columns. (Office Building)



Description: cursory calculation indicates that are stressed above the design limit that requires immediate design review.

The building engineer is required to carry out a Detail Engineering Assessment (DEA) to check the design, loads, and stresses in the floors, columns and foundations.

The floor load in marked areas of the floor must not exceed 1.0 kPa until the finalization of DEA. An interim floor live load plan must be prepared by your consultant and used by the factory with immediate effect.

Observation 2: Lack of Lateral stability. (Button injection, Office Building, Electroplating Building, Store Building, and Wastage Shed).



Office Building



Button injection



Electroplating Building



Store Building



Wastage Shed

Description:

Button Injection: Missing compression strut in the long direction.

Office Building: Missing Vertical bracing in the staircase zone.

Electroplating Building: Missing compression strut in the long direction.

Store Building: Missing compression strut in the long direction.

Wastage Shed: No bracing, Inadequate structural members.

Load transfer media is not provided along the long direction of the structures. Therefore, the lateral stability system of these structures is incomplete.

The building engineer is required to check the stability system of the existing structures and suggest proper remedial action.

Observation-3: Lack of as-built drawing. (Button injection, Office Building, Electroplating Building, Store Building, Security Guard & RMS room and Wastage Shed).



Office Building



Button injection



Electroplating Building



Store Building



Wastage Shed

Description: The built drawing of Button injection, Office Building, Electroplating Building, Store Building, Security Guard & RMS room, and Wastage Shed were not available on site at the time of inspection. The building engineer is required to survey the whole structure and prepare accurate as-built drawings of all these structures.

Observation-4: Severe vibration on the 1st floor of the Button injection building and Office Building due to machinery. (Button Injection Building & Office Building)



Office Building



Button injection building

Description: Significant vibration was felt on the first floor due to the operation of heavy machinery. Building engineer is required to investigate the long-term effect of the vibration and suggest remediation.

Observation-5: Severe corrosion on columns (Button injection, Office Building).



Office Building



Button injection

Description: Severe corrosion was observed on steel columns at the steel toilet zone of the Button Injection Building and Office Building. The factory is required to identify the locations, remove corrosion, replace the damaged steel members where required, and provide rust-proof paint on all steel members to protect them from rusting.

Observation-6: Loose cable bracing (Electroplating Building).



Description: Some of the roof cable bracings were found loose. The building engineer is required to tighten the bracings to transfer the lateral loads properly.

Observation-7: Crack on Wall. (Button injection, Office Building)



Office Building



Button injection building

Description: Crack was found on the façade wall of the Button injection and Office Building. The building engineer is required to investigate the cause of wall cracks and repair with a suitable method.

3. Action Plan

Observation	Action Plan	Timeline
High stress in columns. (Office Building)	The floor load in marked areas of the floor must not exceed 1.0 kPa. A live load plan must be prepared by a consultant and used by the factory with immediate effect.	Immediate
	Confirm the steel grade by testing the existing steel member.	Immediate
	The building engineer is required to A detailed engineering Assessment is required carry out by Building Engineer.	Immediate
	DEA to be completed.	within 6 weeks
	Carry out suggested remedial works if required.	within 6 months
	Implement the floor load plan.	within 6 months
Lack of Lateral stability. (Button injection)	The building engineer is required to check the stability system of the existing structure as part of DEA and suggest proper remedial action.	within 6 weeks
	Carry out suggested remedial works if required.	within 6 months
Lack of Lateral stability. (Office Building)	The building engineer is required to check the stability system of the existing structure as part of DEA and suggest proper remedial action.	within 6 weeks
	Carry out suggested remedial works if required.	within 6 months
Severe vibration on the 1 st floor of the Button injection building and Office Building due to machinery. (Office Building)	The building engineer is required to investigate the long-term effect of the vibration and suggest proper remediation.	within 6 weeks
Severe corrosion on columns (Button injection, Office Building).	The building engineer is required to replace the damaged steel members and provide rust-proof paint on all steel members to protect from corrosion.	within 6 weeks
Crack on Wall. (Button injection, Office Building)	The building engineer is required to investigate the cause of wall cracks and repair with a suitable method.	within 6 weeks

Lack of Lateral stability. (Electroplating Building)	The building engineer is required to check the stability system of the existing structure as part of DEA and suggest proper remedial action.	within 6 weeks
	Carry out suggested remedial works if required.	within 6 months
Lack of Lateral stability. (Store Building).	The building engineer is required to check the stability system of the existing structure as part of DEA and suggest proper remedial action.	within 6 weeks
	Carry out suggested remedial works if required.	within 6 months
Lack of Lateral stability. (Wastage Shed).	The building engineer is required to check the stability system of the existing structure as part of DEA and suggest proper remedial action.	within 6 weeks
	Carry out suggested remedial works if required.	within 6 months
Lack of as-built drawing. (Button injection).	The building engineer is required to survey the whole structure and prepare accurate as-built drawings of all these structures.	within 6 weeks
Lack of as-built drawing. (Office Building).	The building engineer is required to survey the whole structure and prepare accurate as-built drawings of all these structures.	within 6 weeks
Lack of as-built drawing. (Electroplating Building).	The building engineer is required to survey the whole structure and prepare accurate as-built drawings of all these structures.	within 6 weeks
Lack of as-built drawing. (Store Building).	The building engineer is required to survey the whole structure and prepare accurate as-built drawings of all these structures.	within 6 weeks
Lack of as-built drawing. (Security Guard & RMS room and Wastage Shed).	The building engineer is required to survey the whole structure and prepare accurate as-built drawings of all these structures.	within 6 weeks
Loose cable bracing (Electroplating Building).	The building engineer is required to tighten the bracings to transfer the lateral loads properly.	within 6 weeks