

Trust Knitwear Industries Ltd.(Extended)

Bhabanipur, Gazipur Sadar, Gazipur.

(23.983317N, 90.382354E)

4 December 2023



1. Building Information

Warehouse: The structure is a single-storied prefabricated steel shed.

ETP Building: The structure is a partially two-storied reinforced concrete (RC) building.

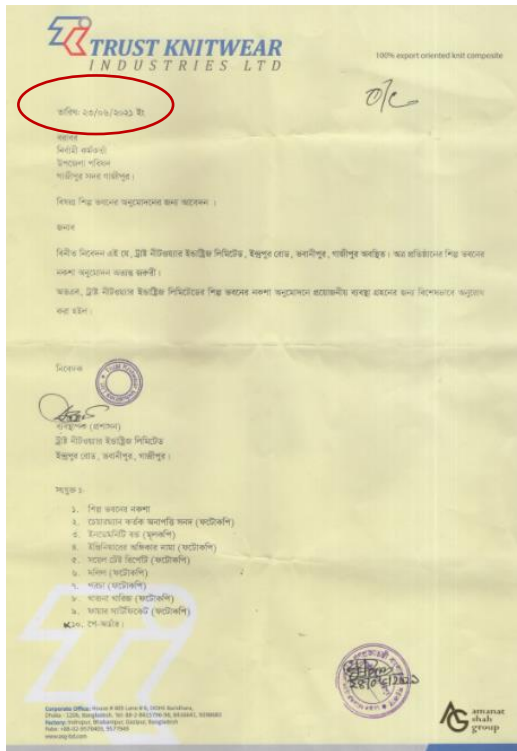
RMS Room: The structure is a single-storied reinforced concrete (RC) building.

Leftover storage shed: This is a single-storied shed.

Observations

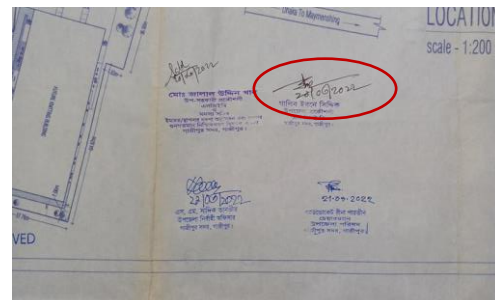
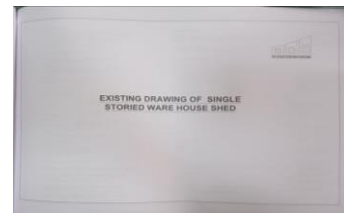
Warehouse:

Observation-1: Inconsistencies in the design report.



1.0) INTRODUCTION:

A structural model of the "EXISTING SINGLE STORED STORE SHED, AT MOUZA - MAHONA, BILAPANIPUR, INDROPUR ROAD, VABANIPUR, GAZIPUR," has been evaluated and STAAD Pro V8i is used to prepare the structural model. The loads, load combinations, and material properties are provided to per BNBC 2006. After structural analysis, serviceability indices, such as maximum deflection has been checked with the provisions provided as per BNBC 2006 & AISC. The model is analyzed for all possible gravity loads coming at its life time as well as environmental, weather and seismic load expected to occur as per BNBC 2006



Description: The factory got approval from LGED (local authority) on March 2022, but the analysis was done as per BNBC 2006. Building engineer is required to update the design documents as per actual site conditions complying with BNBC 2020.

Also, no information of the foundation was found provided in the as-built drawings. Building engineer is required to incorporate foundation information with adequacy as part of Detailed Engineering Assessment (DEA).

Leftover storage shed:

Observation-2: Apparently inadequate connection (Leftover storage shed)



Description: Roof trusses were found inserted into the brick wall. The building engineer is required to check the connection adequacy of the steel members.

Action Plan

Observation	Action Plan	Timeline
Warehouse		
Inconsistencies in the design report.	Building engineer is required to update the design documents as per actual site conditions complying with BNBC 2020.	within 6 weeks
	Implement remediation work if required.	within 6 months
Inconsistencies in the design report.	Building engineer is required to incorporate foundation information with adequacy as part of Detailed Engineering Assessment (DEA).	within 6 weeks
Leftover storage shed		
Apparently inadequate connection	The building engineer is required to check the connection adequacy of the steel members.	within 6 weeks
	Implement remediation work if required.	within 6 months