

Babylon Garments & Dresses Ltd. (Extension)

2-B/1, DARUSSALAM ROAD, MIRPUR, DHAKA.

(23.783508, 90.351746)

24 December 2023



1. Building Information

Store Building: This building is a three (G+2) storied prefabricated steel structure.

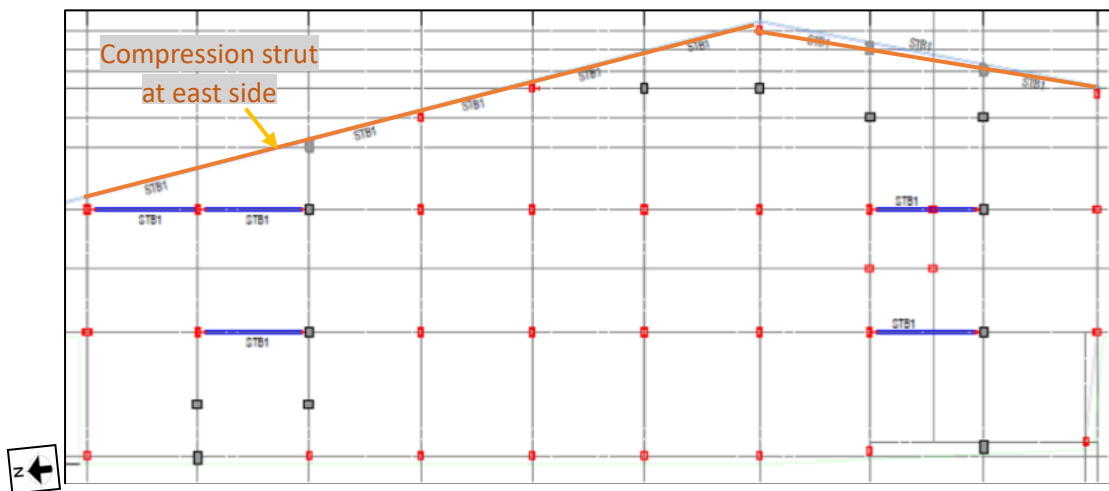
Daycare Shed: This is a single storied shed.

Kitchen Shed: This is a single storied shed.

Wastage Shed: This is a single storied shed.

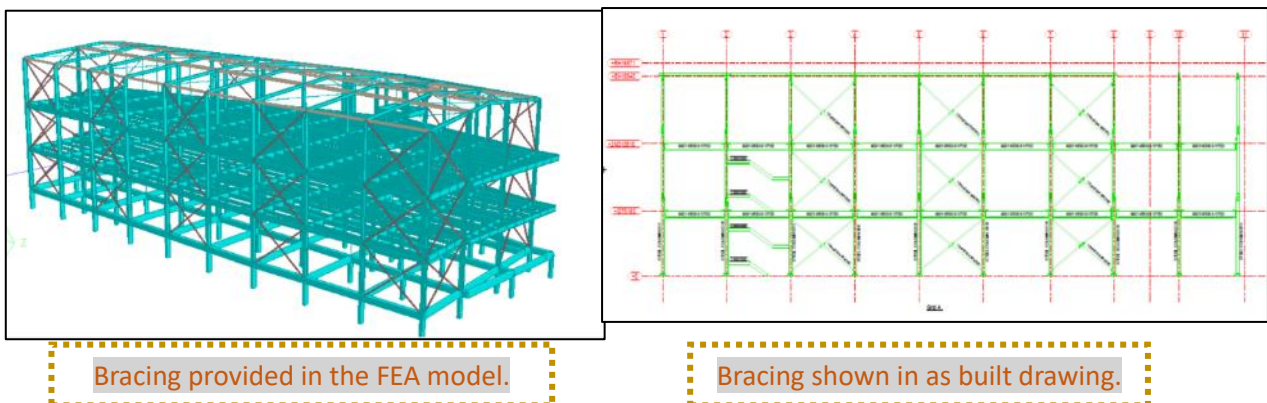
2. Observations

Observation-1: Lack of lateral stability for roof (Store Building).



Description: Compression strut is provided at east side only and lateral stability system appears to be incomplete. The building engineer is required to check the lateral stability of the structure and propose remedial measures if required.

Observation-2: Inconsistency between as-built drawing and FEA model (Store Building).



Description: Position and number of bracings in FEA model are not exactly as per as-built drawing/as-built condition. The building engineer is required to update design report and FEA model as per as-built condition.

Observation-3: Mismatch in as-built drawign (Store Building).



Mismatch was observed in
member size



Canopy was not shown in
the drawing.

Description: During inspection, mismatches were found between onsite condition and as built drawing. Flange thickness was found 8mm instead of 10mm at gable frame column (south side). Also, canopy was not shown in the as-built drawing. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-4: Apparently Inadequate connection (Daycare Shed and kitchen Shed).



Rafter inserted to brick wall
connection (Daycare Shed)



Poor connection between rafter
and RC column (Kitchen Shed)

Description: Apparently inadequate connection was found at Daycare Shed and Kitchen Shed. The building engineer is required check the connection adequacy for uplift forces of all the structures.

Observation-5: Non-engineering shed need to be replaced (Wastage Shed).



Roof made of tin and
bamboo in wastage shed.

Description: The roof of Wastage Shed was found non-engineered (made of tin and bamboo). The building engineer is required to replace the non-engineered shed with engineered one.

Observation-6: Lack of as-built drawing (Ancillary Structures).



Daycare Shed



(Kitchen Shed)



(Wastage Shed)

Description: As-built drawing was not available for any ancillary structure. Building engineer is required to produce as-built drawings for all the ancillary structures.

3. Action Plan

Observation	Action Plan	Timeline
Lack of lateral stability for roof (Store Building).	The building engineer is required to check the lateral stability of the structure and propose remedial measures if required.	within 6 weeks
Lack of lateral stability for roof (Store Building).	Carry out suggested remedial works if required.	within 6 months
Inconsistency between as-built drawing and FEA model (Store Building).	The building engineer is required to update design report and FEA model as per as-built condition.	within 6 weeks
Inconsistency between as-built drawing and FEA model (Store Building).	Carry out suggested remedial works if required.	within 6 months
Mismatch in as built drawing (Store Building).	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
Apparently Inadequate connection (Daycare Shed and kitchen Shed).	The building engineer is required check the connection adequacy for uplift forces of all the structures.	within 6 weeks
Apparently Inadequate connection (Daycare Shed and kitchen Shed).	Carry out suggested remedial works if required.	within 6 months
Non-engineering shed need to be replaced (Wastage Shed).	Building engineer is required to produce as-built drawings for the Ancillary structures.	within 6 months
Lack of as-built drawing (Ancillary Structures).	Building engineer is required to produce as-built drawings for the Ancillary structures.	within 6 weeks