

Executive Hi-Fashions LTD (Extension)

Sreechala, Bagerbazar, Joydebpur, Gazipur.

(24.171882N, 90.424094E)

15 January 2024



1. Building information

Shed 1 (Cutting Shed): Single-storied prefabricated steel shed.

Shed 3 (Dining Shed): Single-storied shed.

Shed 4 (Wastage Shed): Single-storied shed.

Shed 5 (Sub-station Shed): Single-storied shed.

Shed-6 (Compressor Shed): Single-storied shed.

Shed-7 (Fire Control & Security Shed): Single-storied shed.

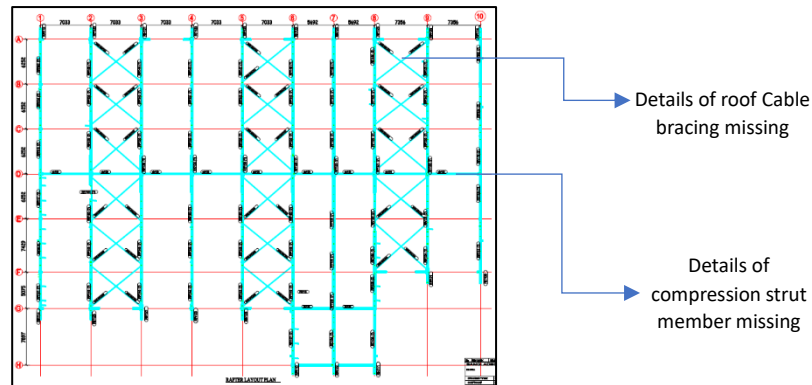
Shed-8 (Fire pump Shed): Single-storied shed.

Building-2 (Generator Building): Single-storied reinforced concrete (RC) building.

Building-3 (RMS Room): Single-storied reinforced concrete (RC) building.

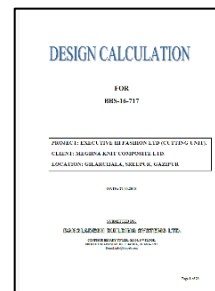
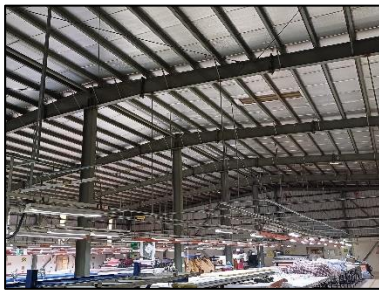
2. Observations

Observation 1: Lack of information in as-built drawings and missing Architectural drawings (Shed 1-Cutting Shed).



Description: During the inspection, cable bracing and compression strut member details information was missing in the as-built drawings. The building engineer is required to survey the full structure and produce accurate as-built drawings with full information on cable bracing and compression strut members.

Observation 2: The design report needs to be reviewed (Shed 1-Cutting Shed).



Description: The design report needs to be reviewed by RSC for lateral forces. The building engineer is required to submit the design report and necessary documents to RSC for review.

Observation-3: Storage rack without anchorage (Shed 1-Cutting Shed & Shed 3-Dining Shed).



Shed 1-Cutting Shed



Shed 3-Dining Shed

Description: Racks on ground floors are not adequately anchored or braced to resist lateral (earthquake) forces. The building engineer is required to adequately anchor and brace all non-structural elements to resist earthquake forces to comply with the BNBC.

Observation-4: Lack of drawings design (Shed 3-Dinning Shed & Building 2-Generator Building).



Shed 3-Dinning Shed



Building 2-Generator Building

Description: As per BNBC, every building or structure designed shall have its design documents prepared following the provision of Section 1.9.1. The design document shall include a design report, and a set of structural drawings, which shall be prepared in compliance with section 1.9.1.1 and section 1.9.1.2, part 6 of BNBC. At the time of inspection, as-built drawings, and design reports were not available which are required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC) and submitted to RSC for detailed review for lateral forces.

Observation-5: Lack of lateral stability (Shed 3-Dinning Shed).



Shed 3-Dinning Shed

Description: Lack of stability against lateral load, apparent inadequate members and non-engineered connection were observed at the roof. The building engineer is required to check the member, connection & stability system of the structure and suggest proper alternatives accordingly.

Observation-6: Lack of as-built drawings (Shed 4-Wastage Shed, Shed 5-Substation Shed, Shed 6-Compressor Shed, Shed 7-Fire Control & Security Shed, Shed 8-Fire Pump Shed, Building 3-RMS room).



Shed 4-Wastage Shed



Shed 5-Substation Shed



Shed 6-Compressor Shed



Shed 7-Fire Control & Security Shed



Shed 8-Fire Pump Shed



Building 3-RMS room

Description: During inspection, there is no drawings were available for the above-mentioned structures. The building engineer is required to survey those structures and prepare accurate as built drawings for each structure separately.

Observation-7: Connection adequacy check for the lightweight roof (Shed 4-Wastage Shed, Shed 5-Substation Shed, Shed 6-Compressor Shed, Shed 7-Fire Control & Security Shed).



Shed 4-Wastage Shed



Shed 5-Substation Shed



Shed 6-Compressor Shed



Shed 7-Fire Control & Security Shed

Description: Lack of stability against lateral load, apparent inadequate members and non engineered connection were observed at the roof. The building engineer is required to check the member, connection & stability system of the structure and suggest proper alternatives accordingly.

Observation-8: Dampness and water ponding on roof slab (Building 2-Generator Building)



Description: Dampness and water ponding were found on the roof slab. The factory is required to repair the damp areas and improve the drainage system on the roof slab.

Observation-9: Exposed and corroded rebar at roof (Building 2-Generator Building)



Description: During inspection, an exposed & and corroded re-bar was found at the roof of the Generator Building. The factory is required to take necessary action to protect exposed re-bar from corrosion.

Observation-10: Falling hazard at adjacent stair (Building 2-Generator Building).



Description: A falling hazard was observed at the adjacent steel stair due to the sharp inclination of the stair tread. Factory is required to repair the stairs or suggest proper alternatives accordingly.

3. Action Plan

Observation	Action Plan	Timeline
Lack of information in as-built drawings. (Shed 1-Cutting Shed)	The building engineer is required to survey the full structure and produce accurate as-built drawings with full information on cable bracing and compression strut members.	within 6 weeks
The design report needs to be reviewed. (Shed 1-Cutting Shed)	The building engineer is required to submit the design report and necessary documents to RSC for review.	within 6 weeks
The design report needs to be reviewed. (Shed 1-Cutting Shed)	Carry out remedial work if required.	within 6 months
Storage rack without anchorage. (Shed 1-Cutting Shed)	Factory is required to adequately anchor and brace all non-structural elements to resist earthquake forces to comply with the BNBC.	within 6 months
Lack of drawings design. (Shed 3-Dinning Shed)	The building engineer is required to prepare a set of as-built drawings and design reports as per 1.9.1 of BNBC.	within 6 weeks
Lack of drawings design. (Shed 3-Dinning Shed)	Carry out remedial work if required.	within 6 months
Lack of lateral stability. (Shed 3-Dinning Shed)	The building engineer is required to check the lateral stability system of the structure.	within 6 weeks
Lack of lateral stability. (Shed 3-Dinning Shed)	Carry out remedial work if required.	within 6 months
Storage rack without anchorage. (Shed 3-Dinning Shed)	Factory is required to adequately anchor and brace all non-structural elements to resist earthquake forces to comply with the BNBC.	within 6 months
Lack of as-built drawings (Shed 4-Wastage Shed)	The building engineer is required to survey the structures and prepare accurate as-built drawings.	within 6 weeks
Connection adequacy check for lightweight roof (Shed 4-Wastage Shed)	The building engineer is required to check the member, connection, and stability system of the structure.	within 6 weeks
Connection adequacy check for lightweight roof (Shed 4-Wastage Shed)	Carry out remedial work if required.	within 6 months
Lack of as-built drawings (Shed 5-Substation Shed)	The building engineer is required to survey the structures and prepare accurate as-built drawings.	within 6 weeks
Connection adequacy check for lightweight roof (Shed 5-Substation Shed)	The building engineer is required to check the member, connection, and stability system of the structure.	within 6 weeks

Connection adequacy check for lightweight roof. (Shed 5-Substation Shed)	Carry out remedial work if required.	within 6 months
Lack of as-built drawings. (Shed 6-Compressor Shed)	The building engineer is required to survey the structures and prepare accurate as-built drawings.	within 6 weeks
Connection adequacy check for lightweight roof. (Shed 6-Compressor Shed)	The building engineer is required to check the member, connection, and stability system of the structure.	within 6 weeks
Connection adequacy check for lightweight roof. (Shed 6-Compressor Shed)	Carry out remedial work if required.	within 6 months
Lack of as-built drawings (Shed 7-Fire Control & Security Shed)	The building engineer is required to survey the structures and prepare accurate as-built drawings.	within 6 weeks
Connection adequacy check for lightweight roof. (Shed 7-Fire Control & Security Shed)	The building engineer is required to check the members, connection and stability system of the structure.	within 6 weeks
Connection adequacy check for lightweight roof. (Shed 7-Fire Control & Security Shed)	Carry out remedial work if required.	within 6 months
Lack of as-built drawings. (Shed 8-Fire Pump Shed)	The building engineer is required to survey the structures and prepare accurate as-built drawings.	within 6 weeks
Connection adequacy check for light weight roof. (Shed 8-Fire Pump Shed)	The building engineer is required to check the member, connection and stability system of the structure.	within 6 weeks
Connection adequacy check for light weight roof. (Shed 8-Fire Pump Shed)	Carry out remedial work if required.	within 6 months
Lack of drawings design. (Building 2-Generator Building)	The building engineer is required to prepare a set of as-built drawings and design reports as per 1.9.1 of BNBC.	within 6 weeks
Lack of drawings design. (Building 2-Generator Building)	Carry out remedial work if required.	within 6 months
Dampness and Water ponding on the roof slab. (Building 2-Generator Building)	The factory is required to repair the damp areas and improve the drainage system on the roof slab.	within 6 weeks

Exposed and corroded rebar at the roof. (Building 2-Generator Building)	The factory is required to repair the damp areas and improve the drainage system on the roof slab.	within 6 weeks
Falling hazard at the adjacent stair. (Building 2-Generator Building)	The factory is required to repair the stairs to prevent falling hazards.	within 6 months
Lack of as-built drawings (Building 3-RMS room)	The building engineer is required to survey the structures and prepare accurate as-built drawings.	within 6 weeks