Mondol Knitwears Ltd (shed)

Rashid Tower, Tongabari, Ashulia, Savar, Dhaka
(23.9055841, 90.322094)
27 September 2023

Buildings Information

1. Single Storied Prefabricated steel shed.

Observations

Lack of lateral stability system in long direction

Observation: Warehouse Shed

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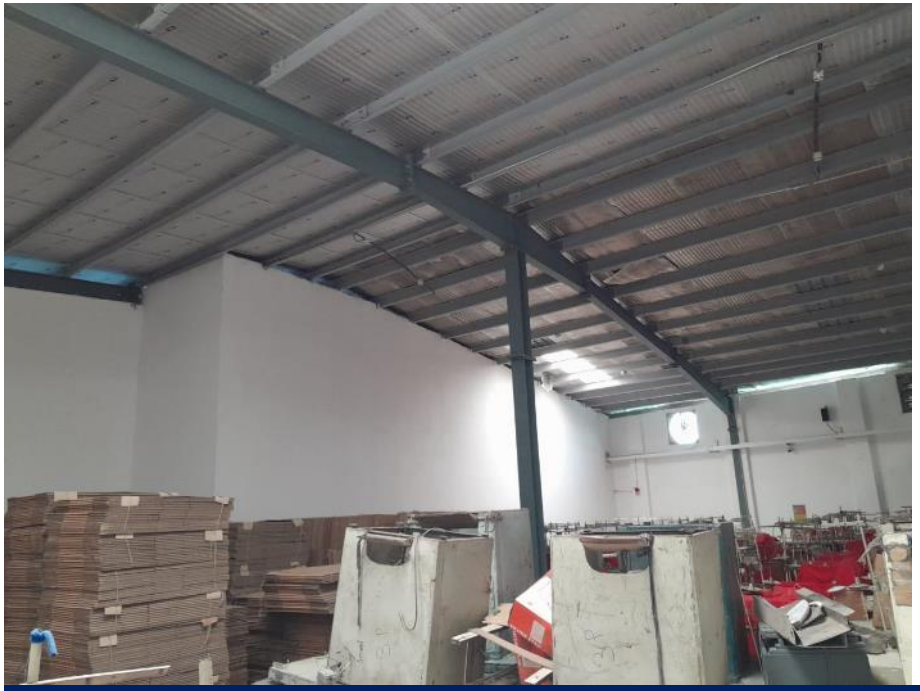

No bracing or strut member observed along long direction

No bracing or strut member was observed in the long direction of the shed. Building engineer to carry out Engineering Assessment (EA) to check the lateral stability of the structure.

Observation: Warehouse Shed

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Significant gap in connection

Observation: Warehouse Shed

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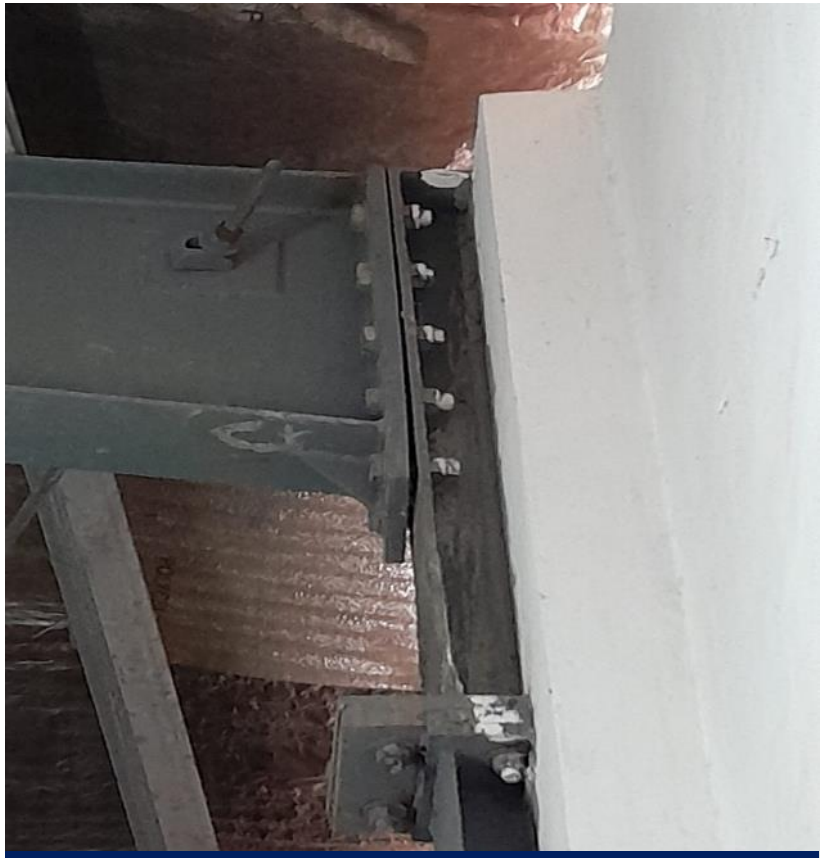

Connection gap in steel column-rafter joint

Connection gap in baseplate joint

Significant gap in the connection of the rafter to the column and base plate to the concrete pedestal was found. Building engineer is required to survey the whole structure & and identify the locations of the connection gaps and suggest proper remediation.

Observation: Warehouse Shed

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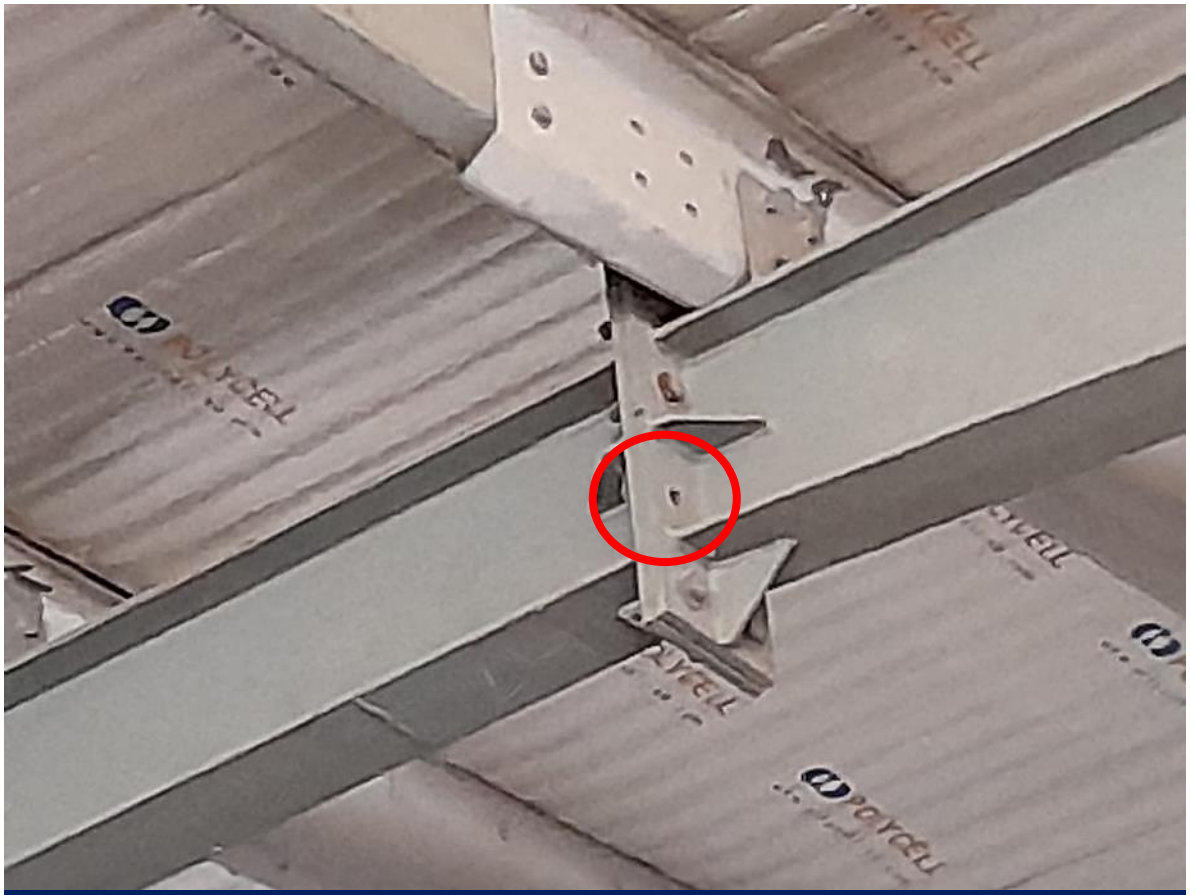
Bolt missing in steel connection

Observation: Warehouse Shed



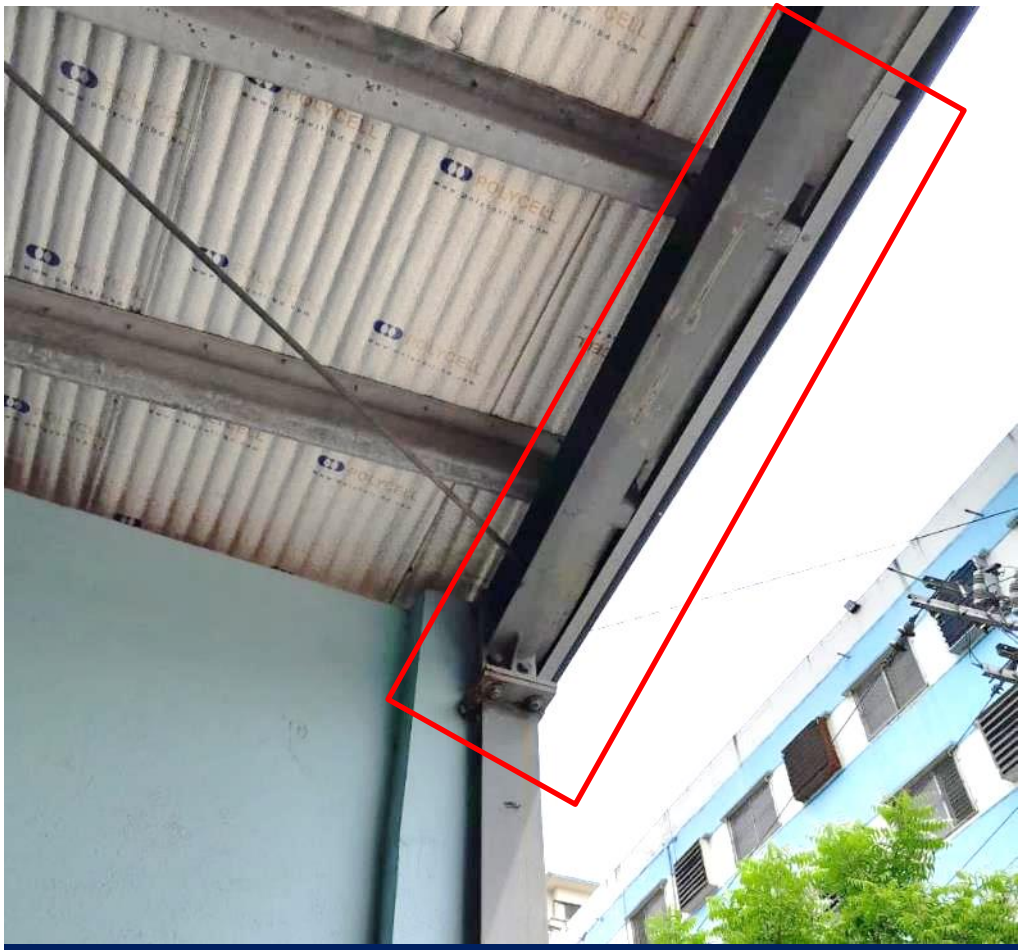
Bolt missing

Bolt missing in several connection joints. Building engineer is required to identify all the locations and install missing bolts accordingly.

Observation: Warehouse Shed

Corrosion on steel members

Observation: Warehouse Shed



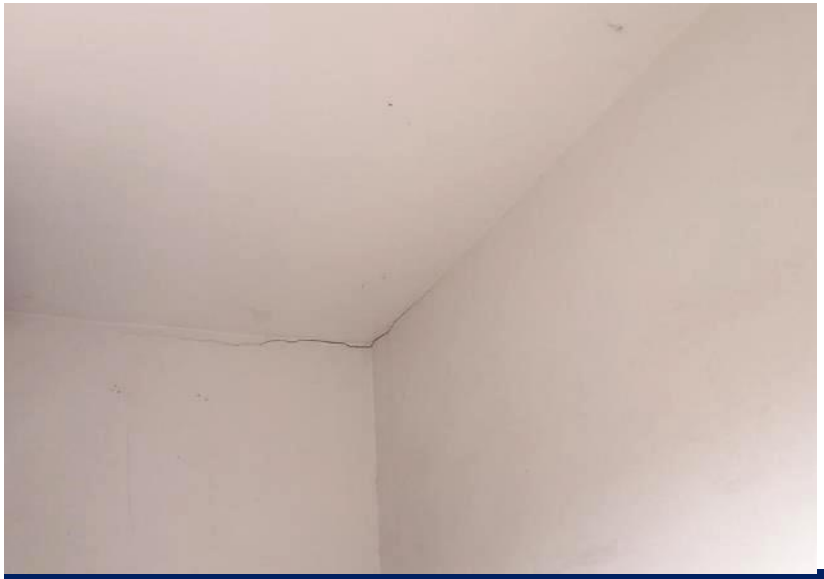
Corrosion in steel members

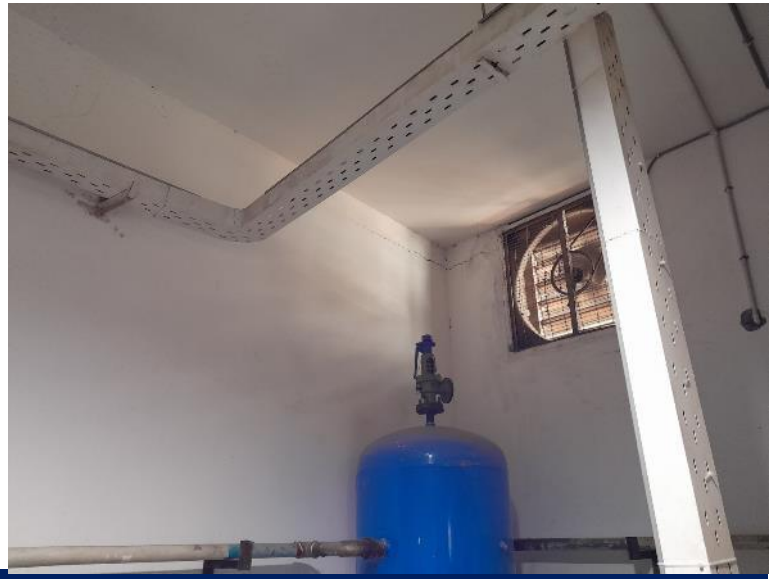
Severe corrosion was observed on steel members. Building engineer is required to remove the corrosion and provide rust-proof paint on all steel members to protect from corrosion.

Observation: Warehouse Shed

Crack between load-bearing brick wall of boiler, compressor, RMS room

Observation: Warehouse Shed





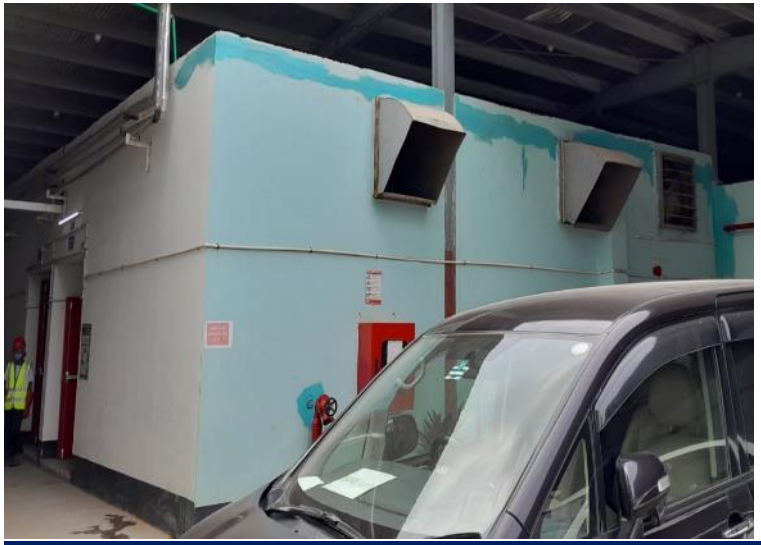
Crack between the load-bearing brick wall and RC slab

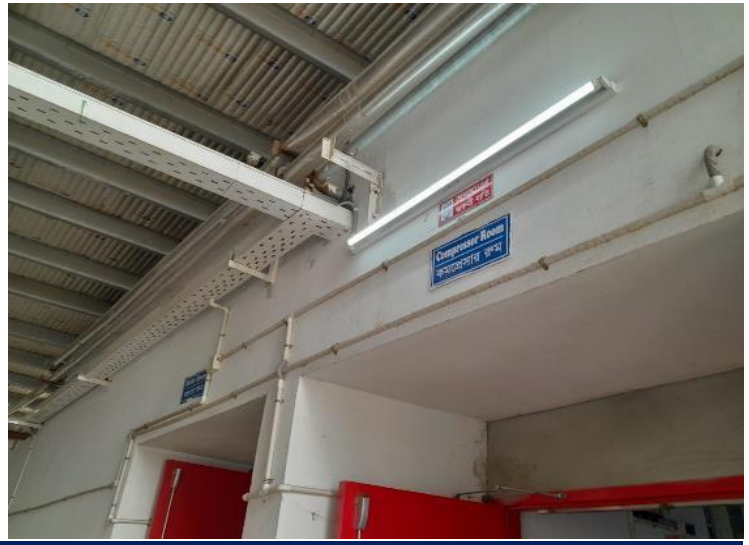
Building engineer is required to investigate the cause of the crack and suggest any remediation required.

Observation: Warehouse Shed

Lack of foundation details

Observation: Warehouse Shed





The structural system of the boiler, compressor and RMS room is an RC slab-supported 250 mm brick wall. The structure is constructed inside the shed. No foundation system is shown in the drawing. Building engineer is required to prepare foundation details and carry out foundation adequacy check for the load bearing walls.

Observation: Warehouse Shed

Priority Actions

Problems Observed

Warehouse Shed:

Item 01: Lack of lateral stability system in long direction.

Item 02: Significant gap in connection.

Item 03: Bolt missing in steel connection.

Item 04: Corrosion on steel members.

Item 05: Crack on load-bearing brick wall of boiler, compressor, RMS room.

Item 06: Lack of foundation details.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Lack of lateral stability system in long direction.	Building engineer to carry out Engineering Assessment (EA) to check the lateral stability of the structure	6-weeks
02	Lack of lateral stability system in long direction.	Carry out suggested remedial works where required.	6-months
03	Significant gap in connection.	Building engineer is required to identify the locations of the connection gaps and repair the gap with suitable method.	6-weeks
04	Bolt missing in steel connection.	Building engineer is required to identify all the locations and install missing bolts as per specification.	6-weeks
05	Corrosion on steel members.	Building engineer is required to remove the corrosion and apply the anti-rust coating to the steel members.	6-months
06	Crack in load-bearing brick wall of boiler, compressor, RMS room.	Building engineer is required to investigate the cause of wall cracks and suggest any remediation required.	6-weeks
07	Crack in load-bearing brick wall of boiler, compressor, RMS room.	Carry out suggested remedial works.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
08	Lack of foundation details.	Building engineer is required to prepare foundation details and carry out foundation adequacy check for the load bearing walls.	6-weeks
09	Lack of foundation details.	Carry out suggested remedial works.	6-months