

Valmont Fashions (Extension)

Plot #928-923 Aziz Complex, Vogra, National University, Joydebpur, Gazipur, Dhaka
(23.827606, 90.261289)

11 March 2024

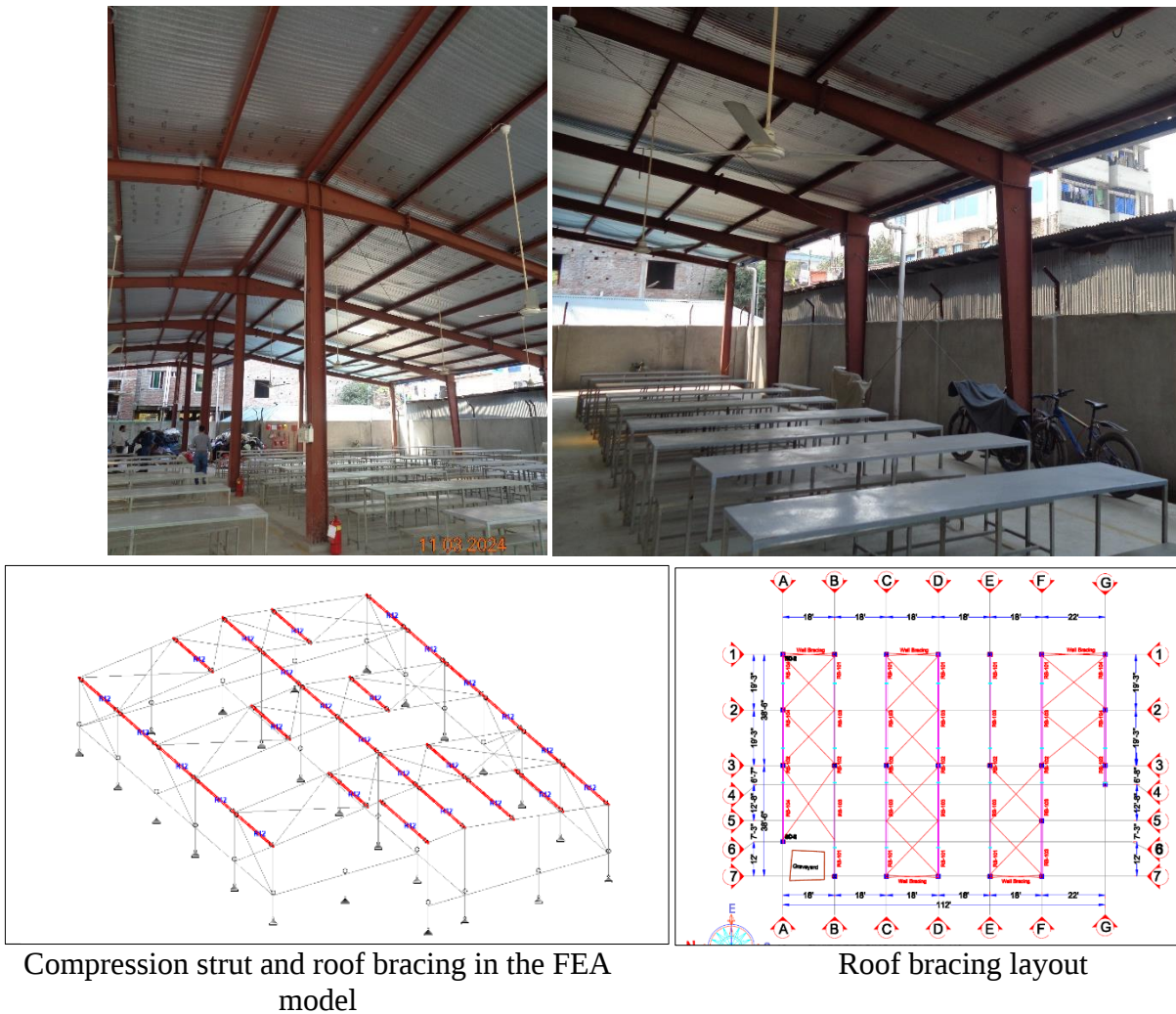


1. Building Information

Dining shed is single storied steel shed.

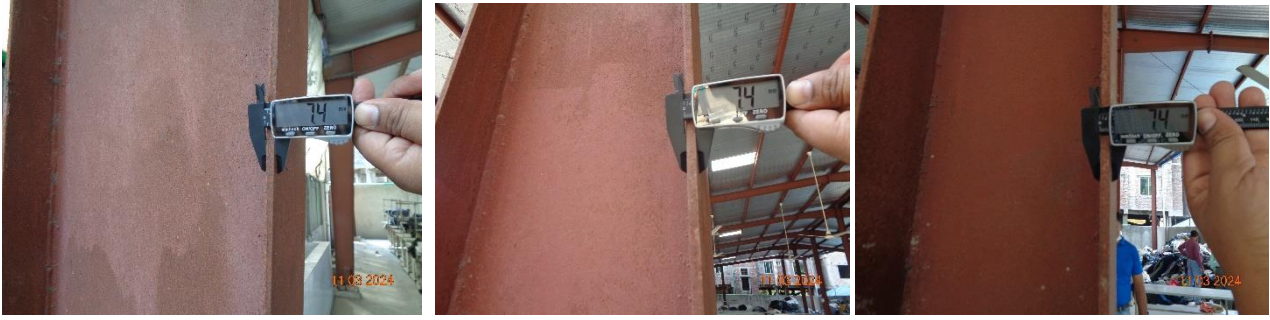
2. Observations

Observation-1: Lack of lateral stability.



Description: During the inspection, Lateral load transfer media (compression strut) along the ridge and eaves were missing. The FEA model has been prepared considering the pipe compression strut, which was not installed at the site. Also, the geometry and roof bracing layout of the FEA model do not match the site drawing. The vertical cable bracing was found missing in one direction. The building engineer must check the lateral load path and revise the design documents based on as-built conditions.

Observation-2: Mismatch in as-built drawing.



Flange thickness of SC1, SC2 and SC3 (from left)



Description: During the inspection, a mismatch was found between the as-built drawing and the site condition. The flange thickness of the SC-1, SC-2 & SC-3 columns was found to be 7mm instead of 8mm. The flange width of the SC-1 column was found 155mm instead of 175mm. The tapered end of the rafter RB-101 was found to be 460mm instead of 500mm. The diameter of the cable was found to be 10mm instead of 12mm.

Building Engineer is required to survey the whole structure and prepare accurate as-built drawing including the foundation information.

Observation-3: Cable bracing found loose.



Description: During the inspection, the horizontal and vertical cable bracing was loose. Factory is required to take necessary measures to tighten the loose bracings.

Observation-4: Connection gap at several locations.



Description: During the inspection, significant gaps and missing bolts were observed at the column rafter joint at several locations. Factory engineer is required to carry out suitable remedial works.

3. Action Plan

Serial No	Observation	Action Plan	Timeline
1	Lack of lateral stability	The building Engineer is required to confirm the lateral load path & verify the lateral stability of the steel shed.	within 6 weeks
2	Lack of lateral stability	Implement the remediation if required.	within 6 months
3	Mismatch in the as-built drawing.	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
4	Cable bracing found loose	The factory is required to tighten the cable bracings.	within 6 weeks
5	Connection gaps at several locations	Identify the locations and carry out suitable repair works where necessary.	within 6 weeks