

Brickland Composite Ltd. (Relocated)

Barpa, Rupshi, Rupganj, Narayanganj-1464, Bangladesh.

(23.748773, 90.535415)

26 December 2023

Structural Inspection Report



1. Building Information

Shed-1: Single storied shed.

Shed-2: Single storied shed.

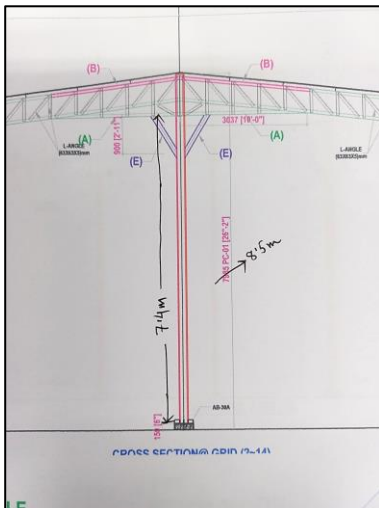
2. Observations

Observation-1: Lack of design report (Shed-1).



Description: As per BNBC, every building should have its design documents in compliance with section 1.9.1 of part 6. During inspection, the design report was not available on site. The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis and in compliance with BNBC 2020 submit it to RSC for review.

Observation-2: Discrepancies in as built drawings (Shde-1).



Description: During inspection, mismatches were found between onsite condition and as-built drawing. The ridge height was measured 8.5 m instead of 7.4 m. Also, the angle thickness of extension roof truss was measured 4.5mm instead of 5mm. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-3: Missing anchor bolts (Shed-1).



Description: Some of the nuts of anchor bolt were missing. The building engineer to check the connection and install missing nuts.

Observation-4: Undocumented toilet blocks (Shed-1).



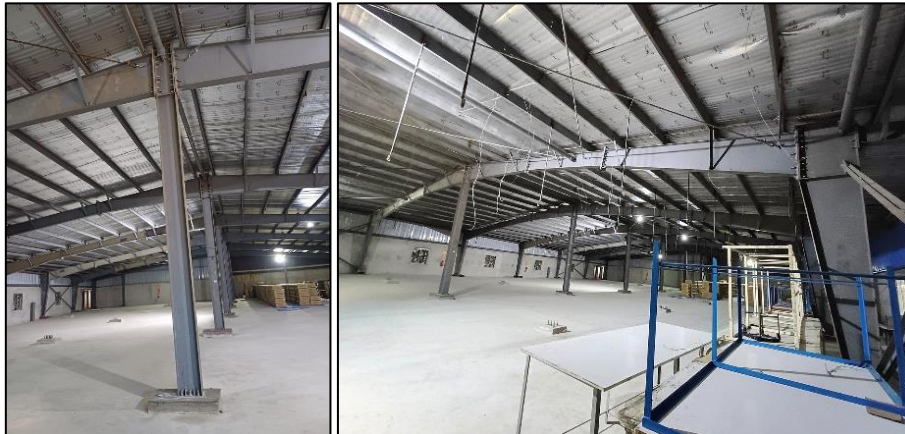
Description: Two toilet blocks were found onsite having no structural details. Prepare necessary as-built drawing with connection details for the toilet blocks.

Observation-5: Lack of anchorage of storage Rack (Shed-1).



Description: Storage racks were found without anchorage. The factory is required to provide anchorage and/or bracing to resist the lateral forces.

Observation-6: Lack of design report (Shed-2).



Description: At the time of inspection, only as-built drawings were available, but no design report was available. The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis in compliance with BNBC 2020 and submit it to RSC for review.

3. Action Plan

Item No.	Observation	Action Plan	Timeline
1.	Lack of design report. (Shed-1)	The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis in compliance with BNBC 2020 and submit the documents to RSC for review.	within 6 weeks
2.	Lack of design report. (Shed-1)	Carry out suggested remedial works if required.	within 6 months
3.	Discrepancies in as built drawings. (Shed-1)	The building engineer is required to survey the full structure and produce accurate as-built drawings.	within 6 weeks
4.	Missing anchor bolts nut (Shed-1).	The building engineer is required to install missing nuts.	within 6 weeks
5.	Undocumented toilet blocks (Shed-1).	The building engineer required to prepare accurate as built drawing with connection details.	within 6 weeks
6.	Lack of anchorage of storage Rack (Shed-1).	Provide anchorage and/or bracing to the storage racks to resist the seismic forces.	within 6 months
7.	Lack of design report. (Shed-2)	The building engineer is required to prepare a design report based on in-situ material strength & software-based analysis in compliance with BNBC 2020 and submit the documents to RSC for review.	within 6 weeks
8.	Lack of design report. (Shed-2)	Carry out suggested remedial works if required.	within 6 months