Anupam Hosiery Industry (Pvt.) Ltd. (Steel Shed)

Vulta, Rupgonj, Narayangonj
(23.77472, 90.56012)
13th February 2022

RSC RMG SUSTAINABILITY COUNCIL

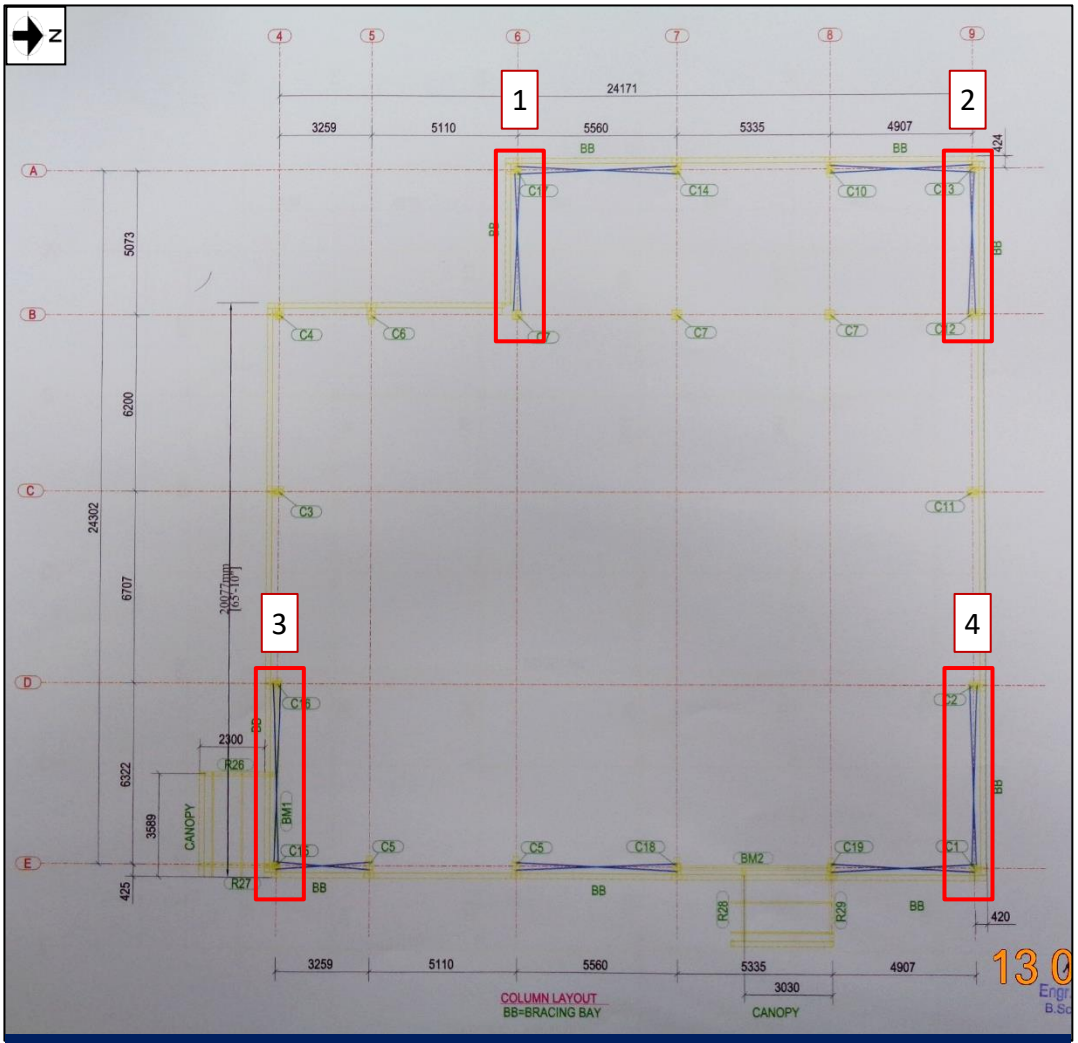
Building Information

Steel Shed: Single storied steel Shed.

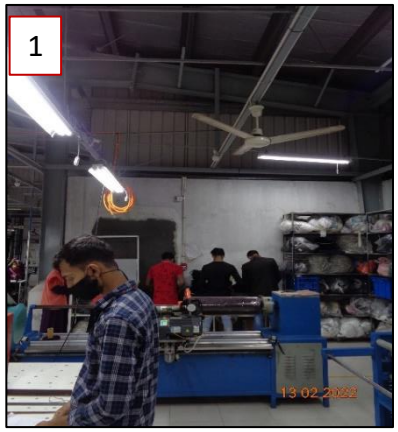
Observations

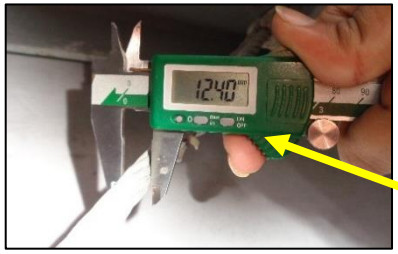
Discrepancies in as-built drawing

Observations: Steel Shed



Vertical Bracing Layout plan – Bracing was not found at marked location.





Cable Bracing size has not been shown in drawing which was found 12mm diameter

During inspection, bracing was not found at marked location as per as-built drawing. Factory engineer is required to develop the accurate as built drawing and submit to RSC for further review.

Observations: Steel Shed

Compression Strut – Marked location

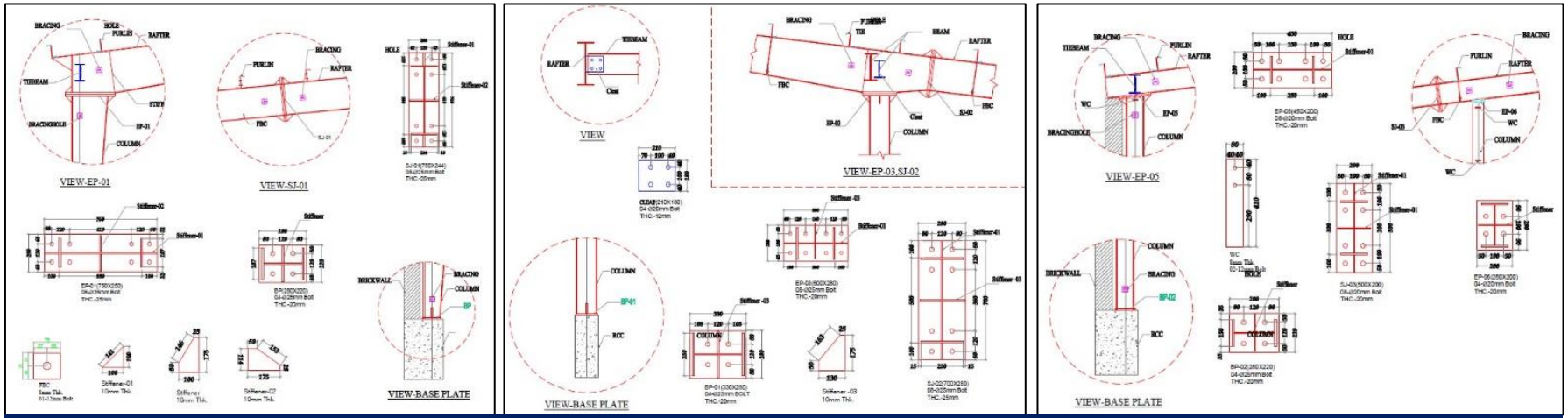
During inspection, compression sturt was found at site. But in as-built drawing, the compression strut section details has not been provided. The size was found W250(8)XF150(10).

As per BNBC, every building or structure designed shall have its design documents prepared in accordance with 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 as per BNBC. Factory engineer is required to update the drawing and revise the design report and FEA model following BNBC requirements.

Observations: Steel Shed

Design report needs to be revised

Observations: Steel Shed



Connection details in as-built drawing

STEELMARK
STEELMARK BUILDINGS LTD.

Anupam Hosiery Ind. (PVT) Ltd.

Computer Program:

For analysis the steel structure, STAAD PRO V8i software has been used in computer. After analysis the structure, the results are given below:

STAAD3- Model

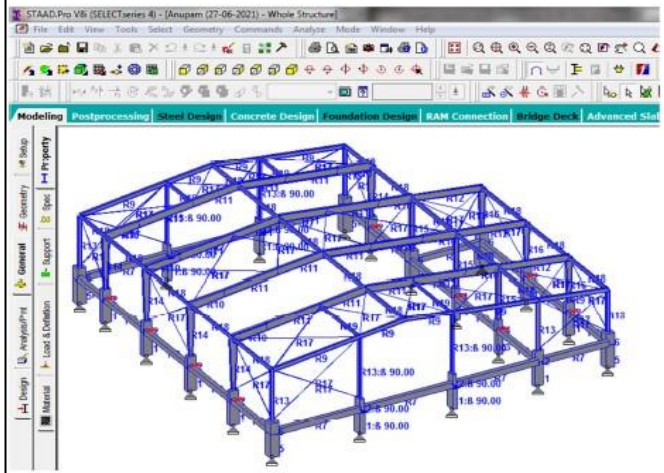


Figure 5.1: STAAD model of steel structure

In Design report, connection design has been only shown for the anchor rod & Basement, EP-1, SJ-01 & Tile Beam connection. Factory engineer is required to provide adequacy check for all the types of connections.

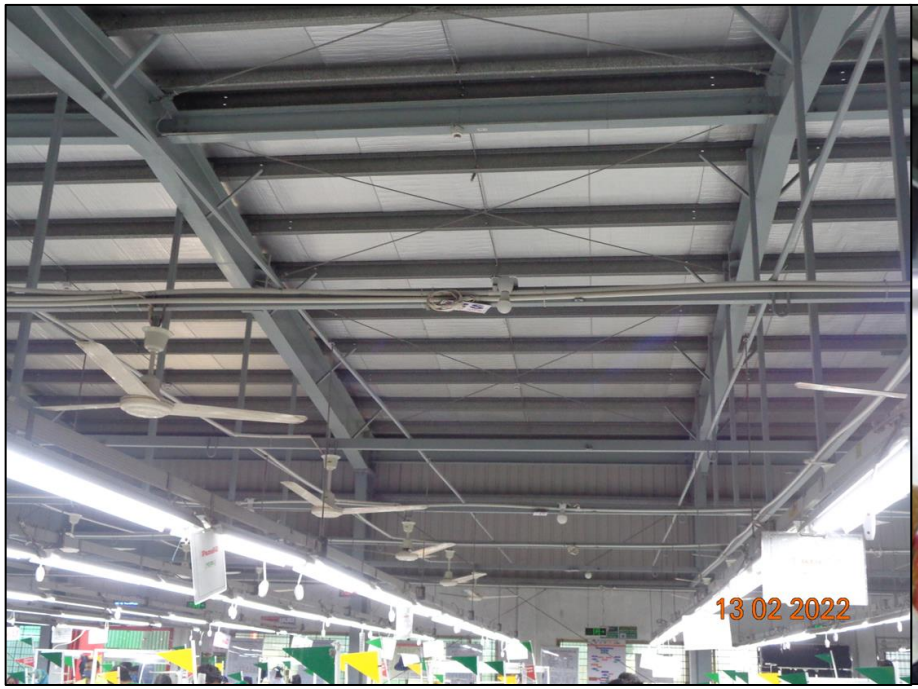
"STAAD PRO" has been used as computer program

As per design report, structural analysis and design software "STAAD PRO" has been used. But Softcopy of "STAAD PRO" was not available for review. Factory engineer is required to revise the full set of design documents including FEA model following BNBC requirements and submit to RSC for review.

Observations: Steel Shed

Cable bracing found loose

Observations: Steel Shed



Wall & Roof cable bracing was found loose. Factory is required to take necessary measures to tighten the roof bracings.

Observations: Steel Shed

Problems Observed

Steel Shed:

Item 01: Discrepancies in as-built drawing.
Item 02: Design report needs to be revised.
Item 03: Cable bracing found loose.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Discrepancy in as-built drawing	Building Engineer to survey the structure and prepare accurate as-built (architectural & structural) drawings in compliance with section 1.9.1.2, part-6 of BNBC.	6-weeks
02	Discrepancy in as-built drawing	Building engineer to update the design document including a design report in compliance with section 1.9.1, part-6 of BNBC.	6-weeks
03	Discrepancy in as-built drawing	Implement the recommendations of design report.	6-months
04	Design report needs to be revised	Building engineer to update the design document including a design report in compliance with section 1.9.1, part-6 of BNBC.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
05	Design report needs to be revised	Implement the recommendations of design report.	6-months
06	Cable bracing found loose	Keep tighten the roof bracings.	6-months

Survey Limitations and Assumptions

This report is for the private and confidential use of Accord for whom it was prepared together with their professional advisors as appropriate. It should not be reproduced in whole or in part or relied upon by third parties for any use without the express written permission of ACCORD.

This report can be used in discussion with the supplier or factory owner as a means to rectify or address any observations made. The report is not comprehensive and is limited to what could be observed during a visual inspection of the building.

This Report is not intended to be treated as a generalised inspection and does not cover the deterioration of structural members through dampness, fungal or insect attack, nor does it deal with problems and defects of a non-structural nature. Other non structural aspects of the building such as fire safety have not been assessed in this survey.

Except as otherwise noted, drains and other services were not viewed or tested during our inspection and are therefore similarly excluded from this Report. We have not inspected any parts of the structure which are covered, unexposed or inaccessible and we are therefore unable to report that any such part of the property is free from defect.

External inspection of the façade walls has generally been carried out from ground level only by visual sighting. No opening up works were carried out (except as noted) and we rely on the Architects and Engineers drawings provided to us for our views on concealed parts of the structure and in particular foundations. Strengths of materials and components are untested and we recommend that the factory owners Building Engineer carries out in situ testing over and above those suggested to satisfy themselves with the material strengths and component details.

Recommendations, where given, are for the purpose of providing indicative advice only, are not exhaustive, relate solely to identifying key and obvious structural defects as identified in this presentation, and do not take the form of or constitute a specification for works. We take no responsibility for the works as constructed. This report does not interfere with the factory owners Building Engineers responsibility for the structural performance of this building, The Building Engineer remains fully responsible for the structural adequacy of the building.

This report does not comment in detail on the future seismic performance of the building and only highlights the fact that the building may experience significant damage or collapse in a seismic event along with many others in the Dhaka region.

The observations in this report are based on the Engineering Judgement of the lead surveyor/engineer at the time of the survey. We assume in making these observations that no covering up of faults defects, filling or plastering over cracking or significant repair work has been carried out by the building owner. Any future alteration or additional work by the building owner will void this report.