

# Supreme Stitch Ltd. (Extension)

West Shaildube, Kashimpur, Gazipur-1700, Dhaka, Bangladesh.

(23.964592, 90.306024)

22 February 2024



## 1. Building Information

**Fabric Store Shed:** This is a single-storied (G+M) prefabricated steel shed with a mezzanine floor.

## 2. Observations

### Observation 1: Lack of lateral stability (Fabric Store Shed).



**Description:** No load transfer media (compression strut) and load resisting system (bracing) provided along east-west direction for shed. And all the connections of existing framing are hinged (free of rotation). The building engineer is required to check the connection and lateral stability of the structure and propose suitable remediation plan accordingly.

### Observation-2: Lack of geotechnical report (Fabric Store Shed)



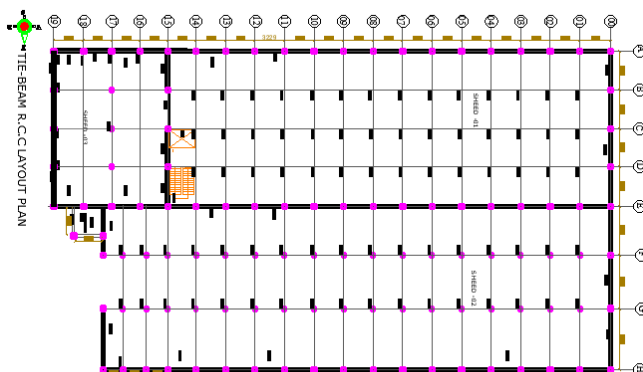
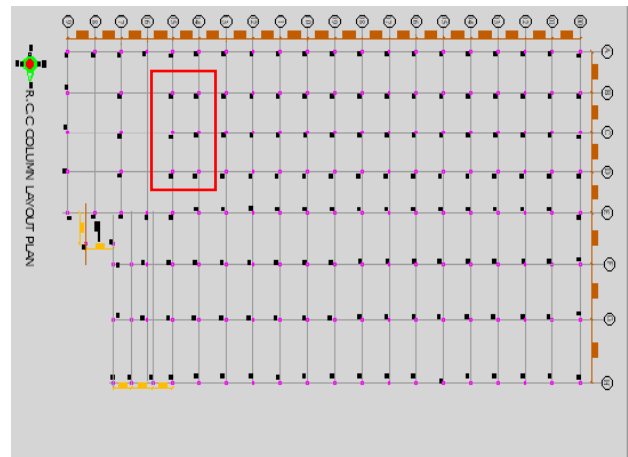
**Description:** No geotechnical report was available for the structure. As per of Detail Engineering Assessment (DEA), the geotechnical engineer is required to conduct sub-soil investigation, prepare geotechnical investigation report, and check the capacity of foundations accordingly.

**Observation-3:** Lack of information in design report (Fabric Store Shed).



**Description:** Connection and member adequacy of steel members are not provided in design report. Also, the design report is prepared based on a software analysis, but the software analysis model was not available on site. As part of the DEA, the building engineer is required to prepare the design report as per 1.9.1 BNBC and submit it to RSC for further review.

**Observation-4:** Discrepancy in as-built drawing (Fabric Store Shed).



**Description:** Marked columns are not found as per column layout. Also, tie beam is shown at south side but not found on site. The building engineer is required to update the as-built drawing.

**Observation-5:** Corrosion on steel members (Fabric Store Shed).



**Description:** Corrosion was found at several locations. The building engineer is required to provide rust proof coating on steel members to protect from corrosion.



### 3. Action Plan

| Observation                                               | Action Plan                                                                                                                                           | Timeline        |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Fabric Store Shed</b>                                  |                                                                                                                                                       |                 |
| Lack of lateral stability (Fabric Store Shed).            | The building engineer is required to check the connection and lateral stability of the structure and propose a suitable remediation plan accordingly. | within 6 weeks  |
| Lack of geotechnical report (Fabric Store Shed).          | The geotechnical engineer is required to conduct sub-soil investigation and prepare a geotechnical investigation report.                              | within 6 weeks  |
| Lack of information in design report (Fabric Store Shed). | As part of the DEA, the building engineer is required to prepare the design report as per 1.9.1 BNBC and submit it to RSC for further review.         | within 6 weeks  |
| Lack of information in design report (Fabric Store Shed). | Implement remediation work if required.                                                                                                               | within 6 months |
| Discrepancy in as-built drawing (Fabric Store Shed).      | The building engineer is required to update the as-built drawing.                                                                                     | within 6 weeks  |
| Corrosion on steel members (Fabric Store Shed).           | The building engineer is required to provide rust proof coating on steel members to protect from corrosion.                                           | within 6 weeks  |