

Mark Sweater Limited. (Extension)

Surabari, Kashimpur, Gazipur Sadar, Gazipur.

(23.971591, 90.321728)

24 December 2023

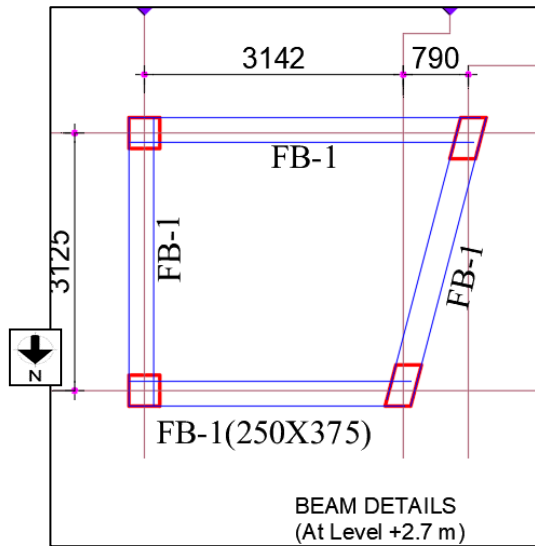


1. Building Information:

- Buiding-4 (ETP Building):** The structure is a two (G+1) storied RC building.
- RMS Room:** The structure is a single storied RC building.
- Shed 1 (Wastage shed):** A single-storied steel shed.
- Shed 2 (Wastage shed-2):** A single-storied steel shed.
- Shed 3 (Parking shed):** A single-storied steel shed.

1. Observations:

Observation-1: Discrepancies in as-built structural drawings (Buiding-4 (ETP Building)).



Beam Layout plan



Column schedule

Description: During the inspection, an additional floor beam was observed in the ground floor roof slab which was not shown in the as-built structural drawing. In addition, no elevation view was incorporated in the available architectural drawing. The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-2: Absence of design documents (Buiding-4 (ETP Building)).



(Buiding-4 (ETP Building)).

Description: As per BNBC, every building or structure designed shall have its design documents prepared following 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. At the time of inspection, a design report was not available which is required to be prepared in compliance with BNBC.

Observation-6: Inadequate steel stair Buiding-4 (ETP Building).



Inadequate connection

Description: There is an external steel stair from the Ground to the 1st floor which was poorly embedded in RC beam of Buiding-4 (ETP Building). Therefore, the connection of steel members to RC beams appeared to be inadequate. The building engineer is required to check the connection adequacy of the steel stairs as part of EA.

Observation-4: Absence of approval drawing from Local Authority (Buiding-4 (ETP Building), Building-5 (RMS Building), Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)).



Description: During the inspection, no building permit drawing was available for Buiding-4 (ETP Building), Building-5 (RMS Building), Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed). The building engineer is required to get approval for all structures from the local authority for the structures.

Observation-07: Lack of as-built drawing. (Building-5 (RMS Building), Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)).



Description: During inspection, no as-built drawings were available for (Building-5 (RMS Building), Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)). The building engineer is required to survey the full structure and produce accurate as-built drawings.

Observation-08: Apparently inadequate connection. (Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed))



Apparently inadequate connection

Description: Apparently inadequate connections between column and truss members were observed on (Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)). The building engineer is required to check the connection adequacy of the lightweight roof against uplift wind pressure.

2. Action Plan:

| Observation | Action Plan | Timeline |
|---|--|-----------------|
| Discrepancies in as-built structural drawings. (Building-4 (ETP Building)) | The building engineer is required to survey the full structure and produce accurate as-built drawings. | within 6 weeks |
| Absence of design documents. (Building-4 (ETP Building)) | Building is required to prepare a set of design reports in compliance with BNBC. | within 6 weeks |
| | Implement remediation work if required. | within 6 months |
| Inadequate steel stairs. (Building-4 (ETP Building)) | The building engineer is required to check the connection adequacy of the steel stair as part of EA. | within 6 weeks |
| | Carry out suggested remedial works if required. | within 6 months |
| Absence of approval drawing from local authority. (Building-4 (ETP Building), Building-5 (RMS Building), Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)) | The building engineer is required to get approval from the local authority for the structure. | within 6 months |
| Lack of as-built drawing. (Building-5 (RMS Building), Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)). | The building engineer is required to survey the full structure and produce accurate as-built drawings. | within 6 weeks |
| Inadequate connection. (Shed-1 (Wastage shed), Shed-2 (Wastage Shed-2), and Shed-3 (Parking shed)). | The building engineer is required to check the connection adequacy of the lightweight roof against uplift wind pressure. | within 6 months |
| | Carry out remediation work if required. | within 6 weeks |

