

# M.M. Knitwear Ltd. (Extension 2)

Ambagh Road, Konabari, Nilnagar, Gazipur

(24.01358,90.32161)

18 May 2026



## 1. Building Information

- Building-5B, G+6 (Complete), Partially 8 Storied
- Security Building, 2 storied RCC
- Yarn Shed, Single storied Shed
- Car Parking Shed, Single storied Shed
- Toilet Block, Single storied Masonry
- Canteen Shed, Single storied Shed
- 33 KV Substation, Single storied RCC
- Security Post (Gate-05), Single storied RCC
- Boiler Shed (B5), Single storied Shed

2. Observation

Observation-01: Mismatch and Lack of information in the as-built drawing. (Building-5B)



**Description:** Ablution area with buildup wall of 300 mm was found in the toilet section. The building engineer is required to survey the structures and prepare comprehensive as-built drawings.

**Observation-02:** Lack of a proper load-management plan (Building-5B).



**Description:** No load markings and proper load management were evident. The building engineer is required to post the floor load plan on each floor, provide load restriction height markings, signage on the storage area, and manage the floor load plan as per the acceptable load limits of BNBC.

**Observation-03:** Dampness on brick walls (Building-5B)



**Description:** Dampness was observed on the lift core wall, periphery wall. The building engineer is required to investigate the causes of the dampness repair with suitable methods.

**Observation-04:** Falling hazard from Roof, slab edge, void (Building-5B)



**Description:** Potential falling hazard was found on ground floor corridor, lift lobby, roof & several floors. The building engineer is required to provide edge protection barrier, parapet or railing.

**Observation-05:** Column surface damage to trolley impact. (Building-5B)



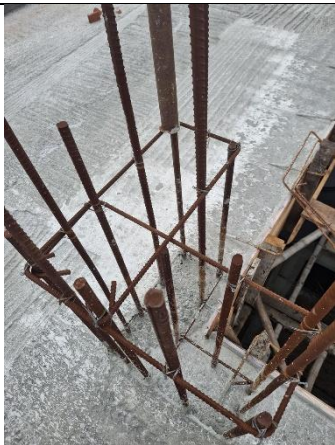
**Description:** Columns are damaged to trolley impact. The building engineer is required to repair the damage to the columns and provide a column guard to prevent the trolley impact.

**Observation-06:** Columns susceptible to vehicle impact. (Building-5B)



**Description:** Columns potential to vehicle impact damage observed at loading unloading zone. The building engineer is required to provide separate barriers around columns in loading unloading zone.

**Observation-07:** Corrosion on steel rebar. (Building-5B)



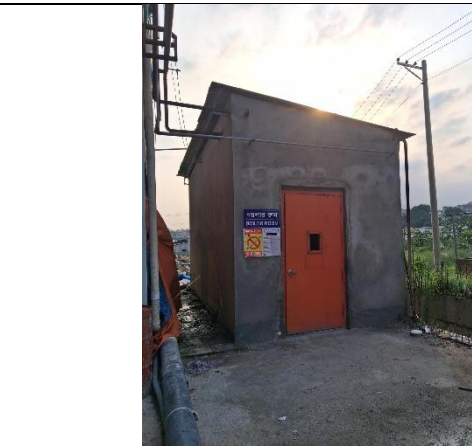
**Description:** Corrosion was observed on the steel rebars. The building engineer is required to remove the corrosion with a suitable method and provide anti-corrosive coating.

**Observation 08:** Non-engineered structure, lack of design documents and no obvious lateral stability system (Yarn Shed).



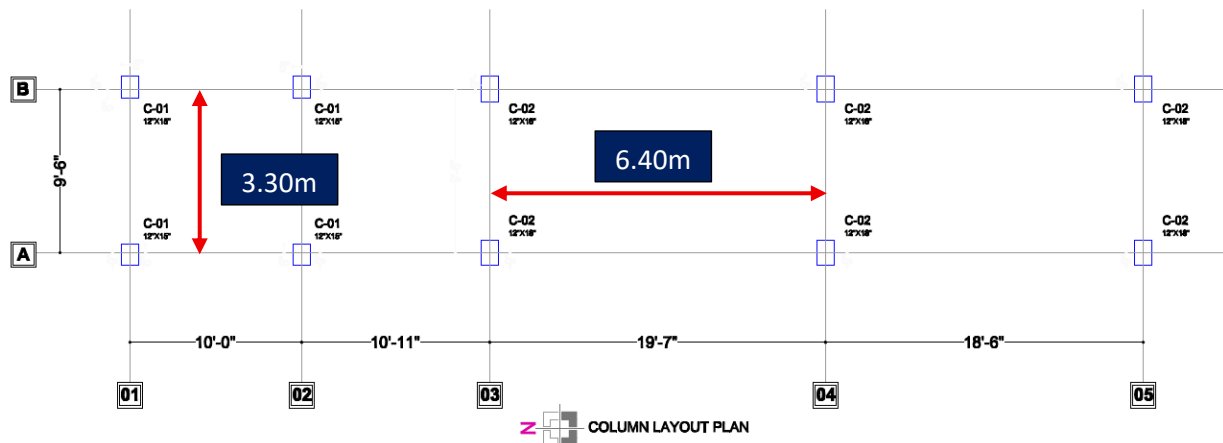
**Description:** During the inspection, no obvious lateral stability systems (bracing and compression struts) were observed. So, the lateral stability system of the structure is incomplete. Also, the shed was framed with bamboo and timber resting over 100 mm X 100 mm RC posts in an non-engineered manner (without any engineered connection). During the inspection, the design report and as-built structural drawings were unavailable on site. The building engineer is required to prepare a set of design documents (considering lateral stability), which shall be prepared in compliance with section 1.9.1, part-6 of BNBC and submit to RSC for review.

**Observation-9:** Lack of design documents and lateral stability. (Boiler Shed (B5))



**Description:** During the inspection, lack of lateral stability systems (bracing and compression struts) was observed. In addition, the design report and as-built structural drawings were unavailable on site. The design report and material test reports were also not available. The building engineer is required to prepare design documents (considering lateral stability) submit to the RSC for detailed review.

**Observation-10: Mismatch in the as-built drawing (Security building)**



**Description:** Grid dimension at y-direction was found 3.30m instead of 2.9m and at grid-03~grid-04 dimension was found 6.40m instead of 5.96m. Additionally, architectural drawings were not available.

The building engineer is required to survey the structures and prepare comprehensive as-built drawings.

**Observation-11: Lack of design documents. (Security building)**



**Description:** During the inspection design report, load plan, material test reports were not available.

The building engineer is required to prepare design documents and submit to the RSC for detailed review.

**Observation-12: Dampness on brick walls. (Security building)**



**Description:** Dampness was observed on the brick wall at stair roof portion. The Building Engineer is required to investigate the causes of the dampness repair with suitable methods.

**Observation-13:** Cracks on brick walls. (Security building)



**Description:** Cracks were observed on 1<sup>st</sup> floor brick walls. The building engineer is required to investigate the reason for the crack and repair it with a suitable method.

**Observation-14:** Falling hazard on the ground floor. (Security building)



**Description:** Falling hazard was observed on the ground floor. The factory engineer is required to provide edge protection barriers/railing.

**Observation-15:** Lack of Lateral Stability (load transfer media, vertical bracing and proper connection) (Canteen shed)



**Description:** Steel truss action was observed along the short direction of the shed. Along the long direction of the shed, there were no stability system & load transfer media (strut, vertical bracing and roof bracing) observed. Building engineers are required to carry out Engineering Assessment (EA) to check the lateral stability of the shed.

**Observation-16:** Lack of design documents. Security Post (Gate-5)



**Description:** During the inspection design report, as-built drawings were not available.

The building engineer is required to prepare design documents and submit to the RSC for detailed review.

**Observation-17:** Lack of Lateral Stability (load transfer media, vertical bracing and proper connection). (Card Parking shed)



**Description:** Steel truss action was observed along the short direction of the shed. Along the long direction of the shed, there were no stability system & load transfer media (strut, vertical bracing and roof bracing) observed.

The Building Engineer is required to conduct Engineering Assessment (EA) to check the shed's lateral stability.

**Observation-18:** Corrosion on steel members. (Card Parking shed)



**Description:** Corrosion was observed on the roof steel members. The building engineer is required to remove the corrosion with a suitable method and provide anti-corrosive coating.

**Observation-19:** Lack of design documents. (Toilet Block)



**Description:** During the inspection design report, as-built drawings were not available.

The building engineer is required to prepare design documents including the vertical load carrying capacity check for brick wall and submit to the RSC for detailed review.

**Observation-20:** Lack of design documents. (33 KV Substation)



**Description:** During the inspection design report, as-built drawings were not available.

The building engineer is required to prepare design documents and submit to the RSC for detailed review.

### 3. Action Plan

| Item No | Observation                                                                                            | Action Plan                                                                                                                                                                                                                   | Timeline       |
|---------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1.      | Mismatch and lack of information in the as-built drawing. (Building-5B)                                | The building engineer is required to survey the structures and prepare comprehensive as-built drawings.                                                                                                                       | within 6 weeks |
| 2.      | Lack of a proper load-management plan (Building-5B)                                                    | The building engineer is required to post the floor load plan on each floor, provide load restriction height markings, signage on the storage area, and manage the floor load plan as per the acceptable load limits of BNBC. | within 6 weeks |
| 3.      | Dampness on brick walls (Building-5B)                                                                  | The building engineer is required to investigate the causes of the dampness repair with suitable methods.                                                                                                                     | within 6 weeks |
| 4.      | Falling hazard from Roof, slab edge, void (Building-5B)                                                | The building engineer is required to provide edge protection barrier, parapet or railing.                                                                                                                                     | within 6 weeks |
| 5.      | Column surface damage to trolley impact. (Building-5B)                                                 | The building engineer is required to repair the damage to the columns and provide a column guard to prevent the trolley impact.                                                                                               | within 6 weeks |
| 6.      | Columns susceptible to vehicle impact. (Building-5B)                                                   | The building engineer is required to provide separate barriers around columns in loading/unloading zone.                                                                                                                      | within 6 weeks |
| 7.      | Corrosion on steel rebar. (Building-5B)                                                                | The building engineer is required to remove the corrosion with a suitable method and provide anti-corrosive coating.                                                                                                          | within 6 weeks |
| 8.      | Non-engineered structure, lack of design documents and no obvious lateral stability system (Yarn Shed) | The building engineer is required to prepare a set of design documents (considering lateral stability), which shall be prepared in compliance with section 1.9.1, part-6 of BNBC and submit to RSC for review.                | within 6 weeks |
| 9.      | Lack of design documents and lateral stability. (Boiler Shed (B5))                                     | The building engineer is required to prepare design documents (considering lateral stability) submit to the RSC for detailed review.                                                                                          | within 6 weeks |
| 10.     | Mismatch in the as-built drawing (Security building)                                                   | The building engineer is required to survey the structures and prepare comprehensive as-built drawings.                                                                                                                       | within 6 weeks |

|            |                                                                                                              |                                                                                                                                                                             |                 |
|------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>11.</b> | Lack of design documents.<br>(Security building)                                                             | The building engineer is required to prepare design documents and submit to the RSC for detailed review.                                                                    | within 6 weeks  |
| <b>12.</b> |                                                                                                              | Implement floor load plan.                                                                                                                                                  | within 6 weeks  |
| <b>13.</b> |                                                                                                              | Implement any required remediation work after acceptance from RSC.                                                                                                          | within 6 months |
| <b>14.</b> | Dampness on brick walls.<br>(Security building)                                                              | The Building Engineer is required to investigate the causes of the dampness repair with suitable methods.                                                                   | within 6 weeks  |
| <b>15.</b> | Cracks on brick walls.<br>(Security building)                                                                | The building engineer is required to investigate the reason for the crack and repair it with a suitable method.                                                             | within 6 weeks  |
| <b>16.</b> | Falling hazard on the ground floor. (Security building)                                                      | The factory engineer is required to provide edge protection barriers/railing.                                                                                               | within 6 weeks  |
| <b>17.</b> | Lack of lateral Stability (load transfer media, vertical bracing and proper connection) (Canteen shed)       | Building engineers are required to carry out Engineering Assessment (EA) to check the lateral stability of the shed.                                                        | within 6 weeks  |
| <b>18.</b> |                                                                                                              | Implement any required remediation work after acceptance from RSC.                                                                                                          | within 6 months |
| <b>19.</b> | Lack of design documents.<br>Security Post (Gate-5)                                                          | The building engineer is required to prepare design documents and submit to the RSC for detailed review.                                                                    | within 6 weeks  |
| <b>20.</b> |                                                                                                              | Implement any required remediation work after acceptance from RSC.                                                                                                          | within 6 months |
| <b>21.</b> | Lack of lateral Stability (load transfer media, vertical bracing and proper connection). (Card Parking shed) | The Building Engineer is required to conduct Engineering Assessment (EA) to check the shed's lateral stability.                                                             | within 6 weeks  |
| <b>22.</b> |                                                                                                              | Implement any required remediation work after acceptance from RSC.                                                                                                          | within 6 months |
| <b>23.</b> | Corrosion on steel members. (Card Parking shed)                                                              | The building engineer is required to remove the corrosion with a suitable method and provide anti-corrosive coating.                                                        | within 6 weeks  |
| <b>24.</b> | Lack of design documents.<br>(Toilet Block)                                                                  | The building engineer is required to prepare design documents including the vertical load carrying capacity check for brick wall and submit to the RSC for detailed review. | within 6 weeks  |
| <b>25.</b> |                                                                                                              | Implement any required remediation work after acceptance from RSC.                                                                                                          | within 6 months |
| <b>26.</b> | Lack of design documents.<br>(33 KV Substation)                                                              | The building engineer is required to prepare design documents and submit to the RSC for detailed review.                                                                    | within 6 weeks  |
| <b>27.</b> |                                                                                                              | Implement any required remediation work after acceptance from RSC.                                                                                                          | within 6 months |