

Natural Denim Ltd(Extension)

532, Tongabari, Ashulia, Savar, Dhaka

(23.900901, 90.326316)

19 January 2025



1. Building Information

1. Washing Building
2. Thermo Boiler Shed
3. Compressor Shed
4. Fire Pump Room
5. Security Building
6. RMS Room.

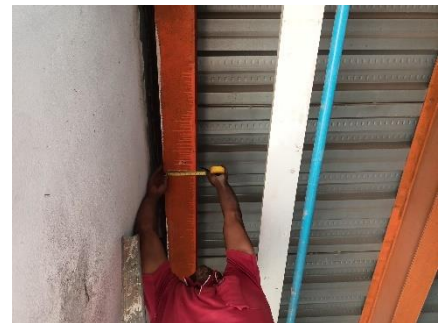
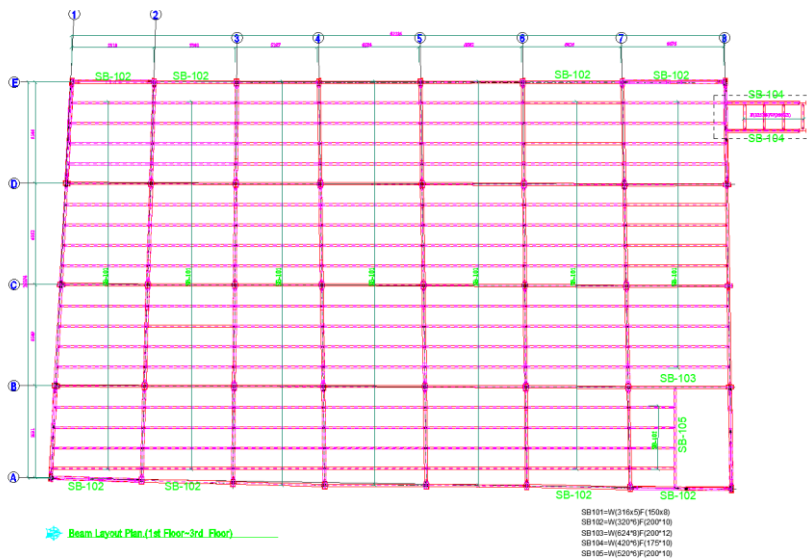
2. Observation

Observation-01: Lack of lateral stability. (Washing Building)



Description: Lateral Load transfer media along the long direction was found discontinues at roof. The building engineer is required to carry out an Engineering Assessment (EA) to check the lateral stability of the structure and suggest proper remedial measures.

Observation-02: Discrepancy in as-built drawing. (Washing Building)



SB101=W(316x5)F(150x8)
SB102=W(320*6)F(200*10)
SB103=W(624*8)F(200*12)
SB104=W(420*6)F(175*10)
SB105=W(520*6)F(200*10)

Description: Flange width of SB 102 was found 150 mm instead of 200 mm. Alos, connection details of the steel structure were not found in the provided drawings. The building engineer is required to survey the whole structure and prepare a full set of as-built drawings which reflects the on-site condition.

Observation-03: Bolt missing and connection gap. (Washing Building)



Description: Bolt missing and connection gap were found in the Knitting Shed. The building engineer is required to repair the gap with a suitable method. Also, install missing bolts where necessary.

Observation-04: Corrosion on steel member. (Washing Building)



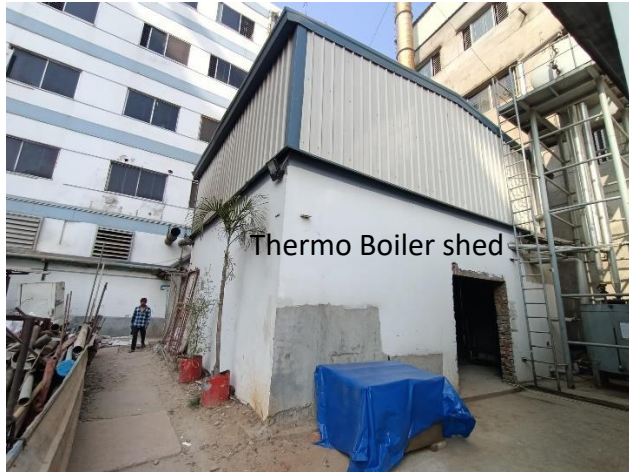
Description: Corrosion was found in the steel member. The building engineer is required to remove the corrosion and provide anti corrosive coating to the steel members.

Observation-05: Non-structural elements not anchored or braced. (Washing Building)



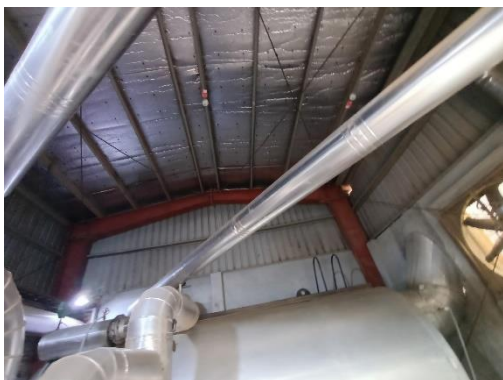
Description: Non-structural elements (PVC tank and Racks) were found on different floors of the building. Which were not properly anchored or braced. Building engineer is required to anchor or brace all non-structural elements to avoid falling hazard during earthquake or any lateral loading.

Observation-06: Lack of as-built drawings (Thermo Boiler shed, Compressor Shed, Fire Pump Room, Security building, RMS room)



Description: As-built structural & architectural drawings were not available for these structures. Only sub-structural details were available for the Fire pump Room. The building engineer is required to prepare full set of as-built drawing with complete structural and architectural details.

Observation-07: Lack of lateral stability. (Thermo Boiler shed)



Description: Lack of lateral stability system observed in the shed. Also, existing bracings were found untighten. The building engineer is required to prepare a safety check report according to the Accord Building Standard to address this issue.

Observation-08: Absence of design documents. (Security 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, the design report was not available which is required to be prepared in compliance with section 1.9.1.1 (part 6, BNBC).

Observation-09: Dampness found on slab soffit. (Security Building)



Description: Dampness was found on the 1st floor roof slab soffit. The building engineer is required to repair dampness with a suitable method.

Observation-10: Exposed rebar on partial roof. (External Stair and Security Building)



Description: During inspection, the exposed rebar was found on the roof slab. The building engineer is required to apply anti-rust proof coating on exposed rebar.

3. Action Plan

Item No	Observation	Action Plan	Timeline
1.	Lack of lateral stability. (Washing Building)	The building engineer is required to carry out Engineering Assessment (EA) to check the lateral stability of the structure and suggest proper remedial measures.	within 6 weeks
2.	Lack of lateral stability. (Washing Building)	Carry out the suggested remedial work if required.	within 6 months
3.	Discrepancy in as-built drawing. (Washing Building)	The building engineer is required to update the as-built drawing which reflects the on-site condition.	within 6 weeks
4.	Bolt missing and connection gap. (Washing Building)	The building engineer is required to repair the gap with a suitable method.	within 6 weeks
5.	Bolt missing and connection gap. (Washing Building)	Install missing bolts where necessary.	within 6 weeks
6.	Corrosion on steel member. (Washing Building)	The building engineer is required to remove the corrosion and provide anti corrosive coating to the steel members.	within 6 weeks
7.	Non-structural elements not anchored or braced. (Washing Building)	The building engineer is required to anchor or brace all non-structural elements to avoid falling hazard during earthquake or any lateral loading.	within 6 months
8.	Lack of as-built drawings (Thermo Boiler shed, Compressor Shed, Fire Pump Room, Security building, RMS room)	The building engineer is required to prepare a full set of as-built drawing with complete structural details.	within 6 weeks
9.	Lack of lateral stability. (Thermo Boiler shed)	The building engineer is required to prepare a safety check report according to the Accord Building Standard to ensure the basic level of safety of the structure.	within 6 weeks
10.	Lack of lateral stability. (Thermo Boiler shed)	Carry out the suggested remedial work if required.	within 6 months
11.	Absence of design documents. (Security Building)	Prepare design report for the structure as per 1.9.1 BNBC.	within 6 weeks
12.	Absence of design documents. (Security Building)	Implement the recommendations of the design report.	within 6 months
13.	Absence of design documents. (Security Building)	Implement floor load plan.	within 6 months

14.	Dampness found on slab soffit. (Security Building)	Investigate the damp portion and repair accordingly.	within 6 weeks
15.	Exposed rebar on partial roof. (External Stair and Security Building)	The building engineer is required to apply anti-rust proof coating on exposed rebar.	within 6 months