

EUROTEX KNITWEAR LTD. (Extension)

Nayamati, Kutubpur, Fatullah, Narayanganj-1400
(23.649037, 90.501637)
13 August 2023

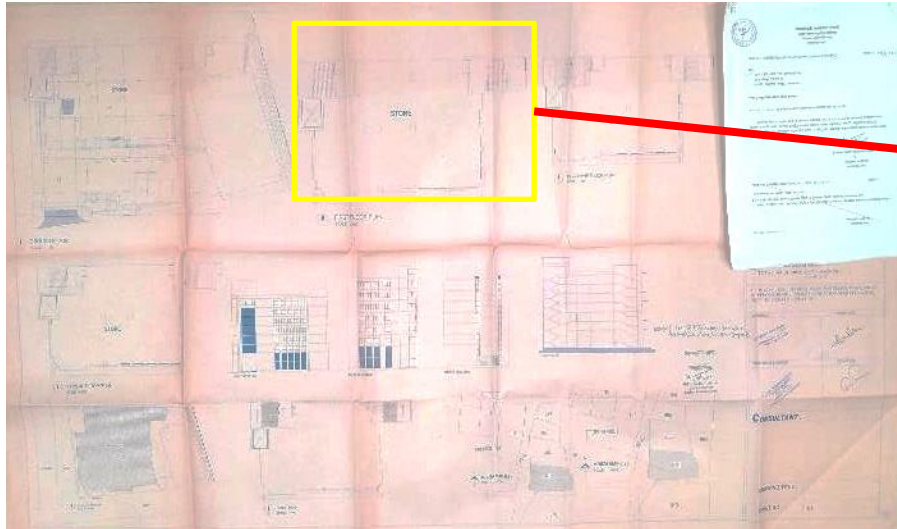


Building Information

1. Building-4 (Storage Building) is a six storied (G+5) reinforced concrete (RC) structure.
2. Building-5 (Dyeing Finishing 2) is a five storied (G+4) RC structure.

Observations

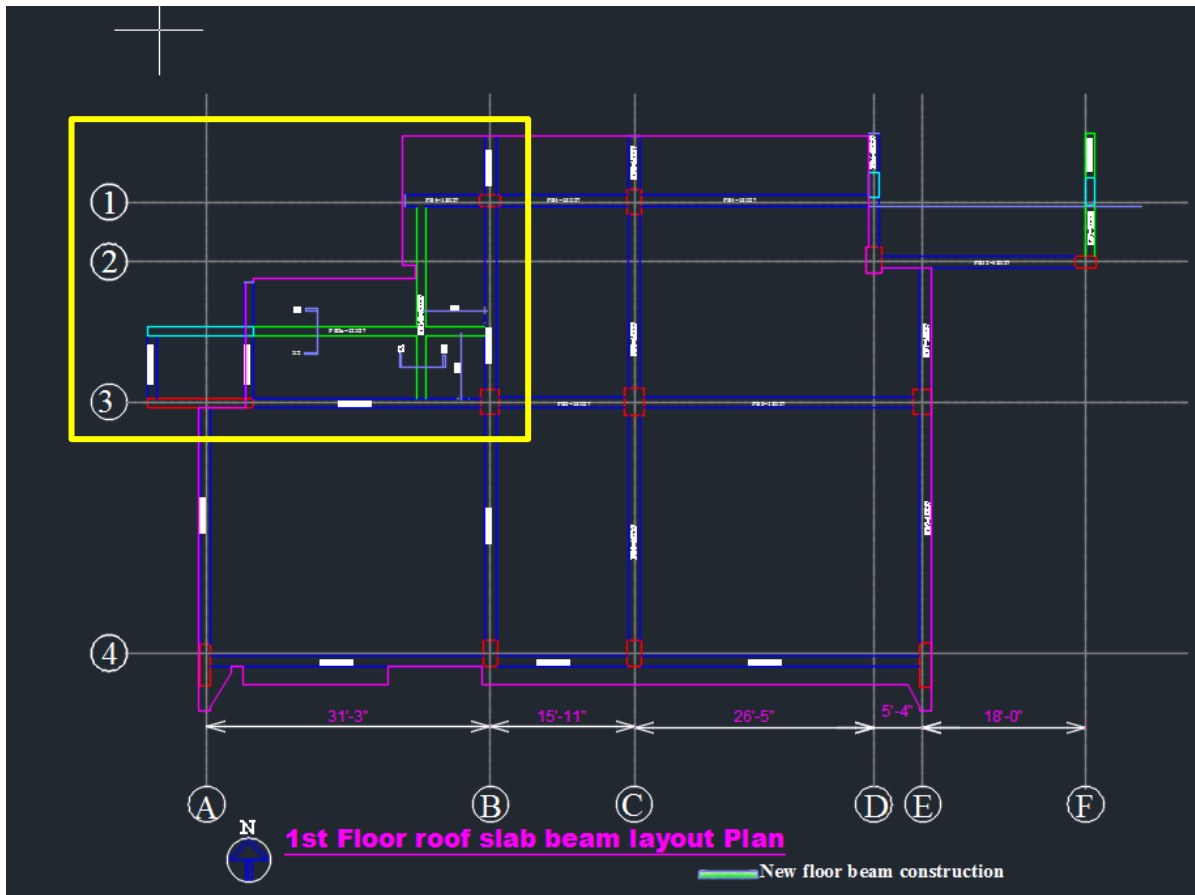
Absence of design documents



Building 4

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, part-6 of BNBC. During inspection, design report was not found which is required to be prepared in compliance with section 1.9.1.1, part-6 of BNBC.

Design review of cantilever beam



The marked beam cut to separate the buildings and the beams became cantilever beam. The building engineer is required to check the reinforcement of the beam & review the design.

Poor roof drainage system

Observation: Building 4



Water ponding was found at roof floor due to rainwater.

Building engineer is required to provide adequate drainage system to avoid water ponding on the roof.

Absence of design documents



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, part-6 of BNBC.

During inspection design report was not found which is required to be prepared in compliance with section 1.9.1.1, part-6 of BNBC. The lateral stability check must be included in the design report.

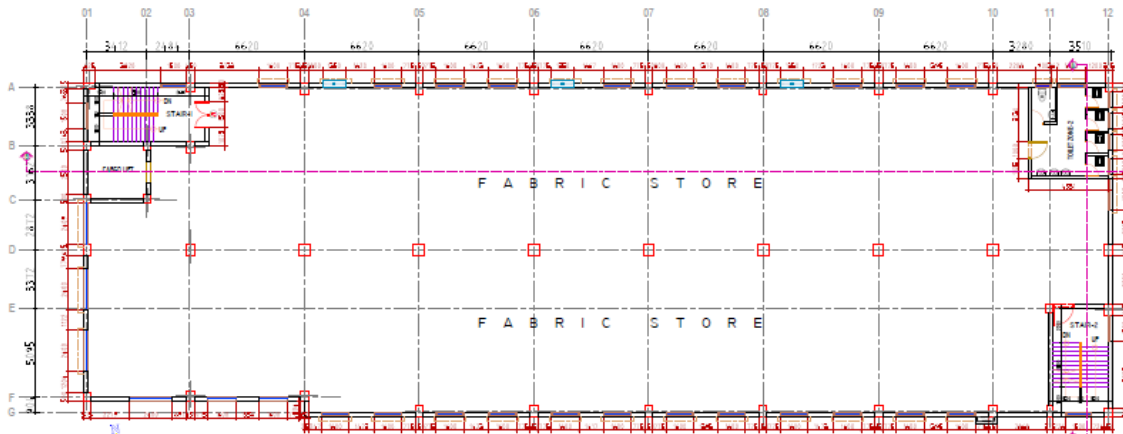
Inconsistency in as-built drawing



Onsite toilet build-up



Onsite floor condition: office & production floor



Provided architectural drawing: fabric store

During inspection, difference found between architectural layout drawing and onsite floor use. Also, 250 mm build-up at toilet area was not shown in as-built drawing. Building engineer is required to survey the full building and update the as-built drawing accurately.

Poor roof drainage system

Observation: Building 5



Water ponding was found at roof floor due to rainwater.

Building engineer is required to provide adequate drainage system to avoid water ponding on the roof.

RC Column suspectable for trolley Impact

Observation: Building 4 & 5



Damage RC column due to trolley Impact

During inspection, damage RC column observed due to trolley Impact. The factory is required to repair the column surface and provide barrier around the RC column to avoid possible trolley impact.

Lack of anchorage of storage rack



Lack of anchorage/brace of storage racks

During inspection lack of anchorage/brace of storage racks found on Building 4 & 5. The factory is required to brace/anchor all the non-structural elements including storage racks.

Priority Actions

Problems Observed

Building 4

Item 1: Absence of design Report.

Item 2: Design review of cantilever beam.

Item 3: Poor roof drainage system.

Building 5

Item 4: Absence of design Report.

Item 5: Inconsistency in as-built drawing.

Item 6: Poor roof drainage system.

Building 4 & 5

Item 7: RCC Column suspectable for trolley Impact.

Item 8: Lack of anchorage of storage rack.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Absence of design documents (Building 4)	Building engineer is required to prepare design report as per BNBC, part-6, Section-1.9.1.	6-weeks
02	Absence of design documents (Building 4)	Produce and actively manage a loading plan for all floor plates within the factory consideration to floor capacity and column capacity.	6-weeks
03	Absence of design documents (Building 4)	Complete implementation of any remedial works deemed necessary by design report (if required).	6-months
04	Design review of cantilever beam (Building 4)	Building engineer is required to review the design of cantilever beams and suggest necessary remedial measures.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
05	Design review of cantilever beam (Building 4)	Carry out suggested remedial works if required.	6-months
06	Poor roof drainage system. (Building 4)	Building engineer is required to develop adequate drainage system to avoid water ponding on the roof.	6-months
07	Absence of design documents (Building 5)	Building engineer is required to prepare design report as per BNBC, part-6, Section-1.9.1.	6-months
08	Absence of design documents (Building 5)	Produce and actively manage a loading plan for all floor plates within the factory consideration to floor capacity and column capacity.	6-weeks
09	Absence of design documents (Building 5)	Complete implementation of any remedial works deemed necessary by design report (If required).	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
10	Inconsistency in as-built drawing. (Building 5)	Building engineer is required to survey the structure and prepare accurate as-built drawing.	6-weeks
11	Poor roof drainage system. (Building 5)	Building engineer is required to develop adequate drainage system to avoid water ponding on the roof.	6-months
12	RC Column susceptible for trolley Impact. (Building 4 & 5)	The factory is required to repair damage column surface and provide barrier around the RC column to avoid possible trolley impact.	6-months
13	Lack of anchorage of storage racks (Building 4 & 5)	The factory is required to brace/anchor all the unbraced non-structural elements including storage racks.	6-months