

Fakhruddin Textiles Mills Limited (Extension Area)

Ghargharia, Master Bari, Kewa, Sreepur, Gazipur
(24.191469, 90.435220)

25 February & 11 August 2021



Building Information

Building-8 is a single storied reinforced concrete beam-column frame structure.

Building-9 (G+4) is a five storied (G+4) reinforced concrete beam-column frame structure.

Building-10 is a single storied reinforced concrete beam-column frame structure.

Building-11 is a single storied reinforced concrete beam-column frame structure.

Building-12 is a single storied reinforced concrete beam-column frame structure.

Shed-13 (G+1) is a two storied pre-fabricated steel structure.

Building-14 is a single storied pre-fabricated steel beam-column frame structure.

Shed-15 is a single storied pre-fabricated steel structure.

Shed-16 is a single storied pre-fabricated steel structure.

Shed-17 is a single storied pre-fabricated steel structure.

Observations

Structural design reports not available



As per BNBC, building or structure 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 as per BNBC.

The design report of the mentioned structures was not found which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).

Observations: Building 09- Store & Dining building

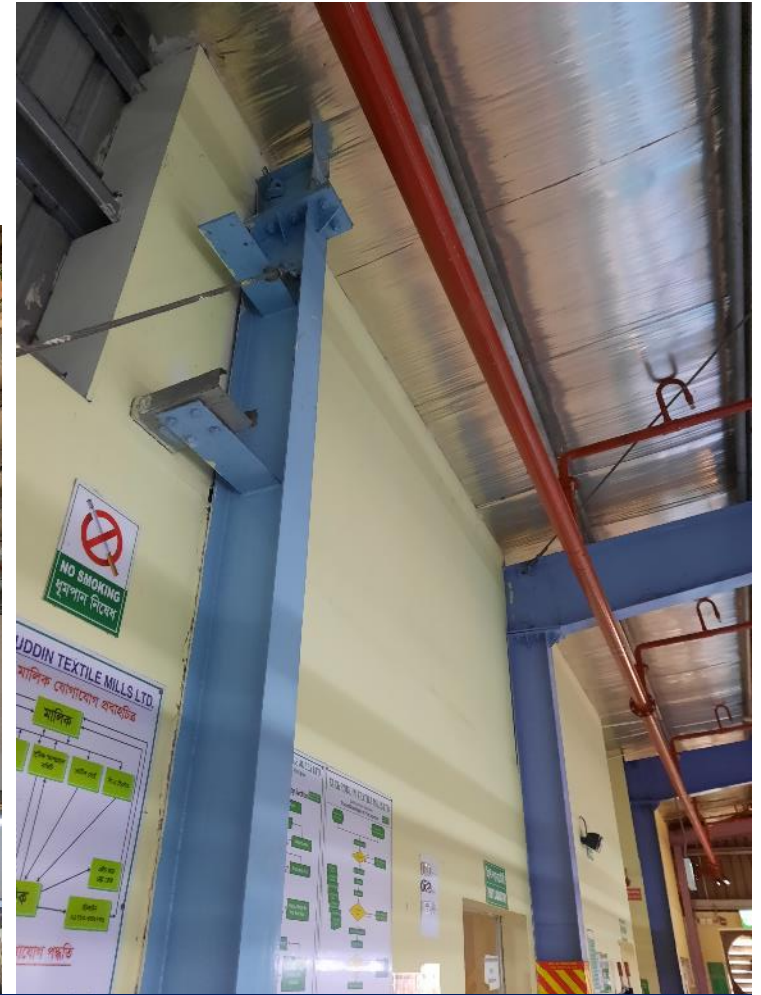
Implement floor loading management program



No load management programs were visible. No load plan posted, load restriction height marking provided. Factory is required to implement load management program as per its floor loading capacity and Follow the load plans for all floors of the buildings and make sure that the workers understand the loading requirements.

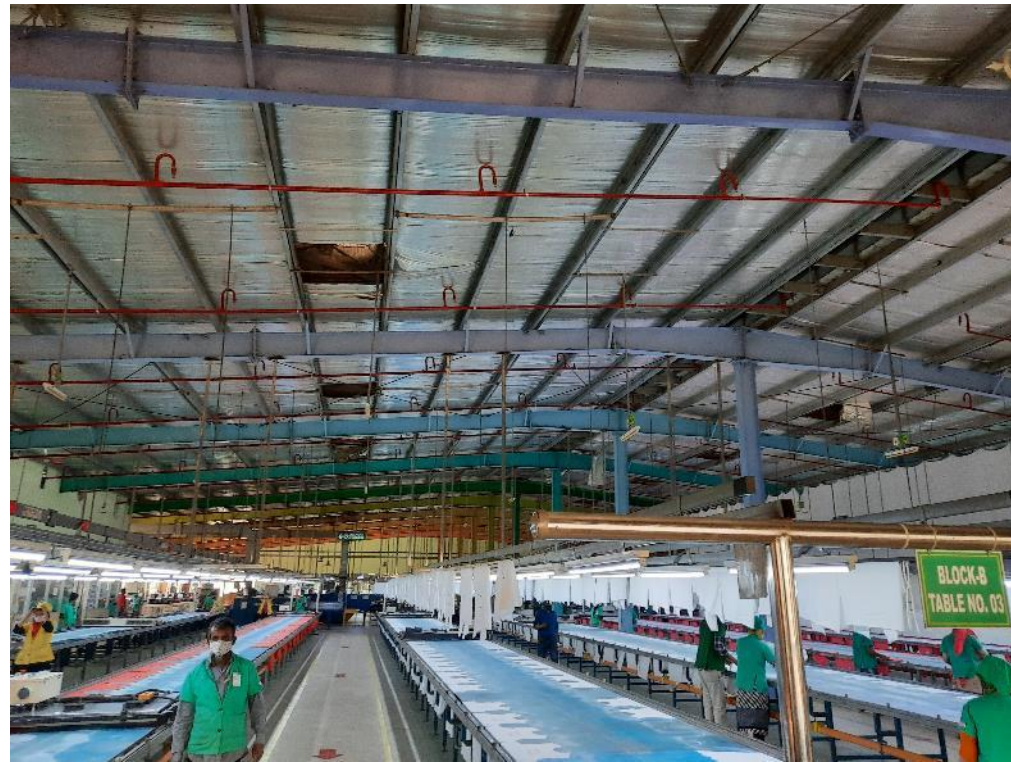
Observations: Building 09- Store & Dining building

Absence of load transfer media in the long direction



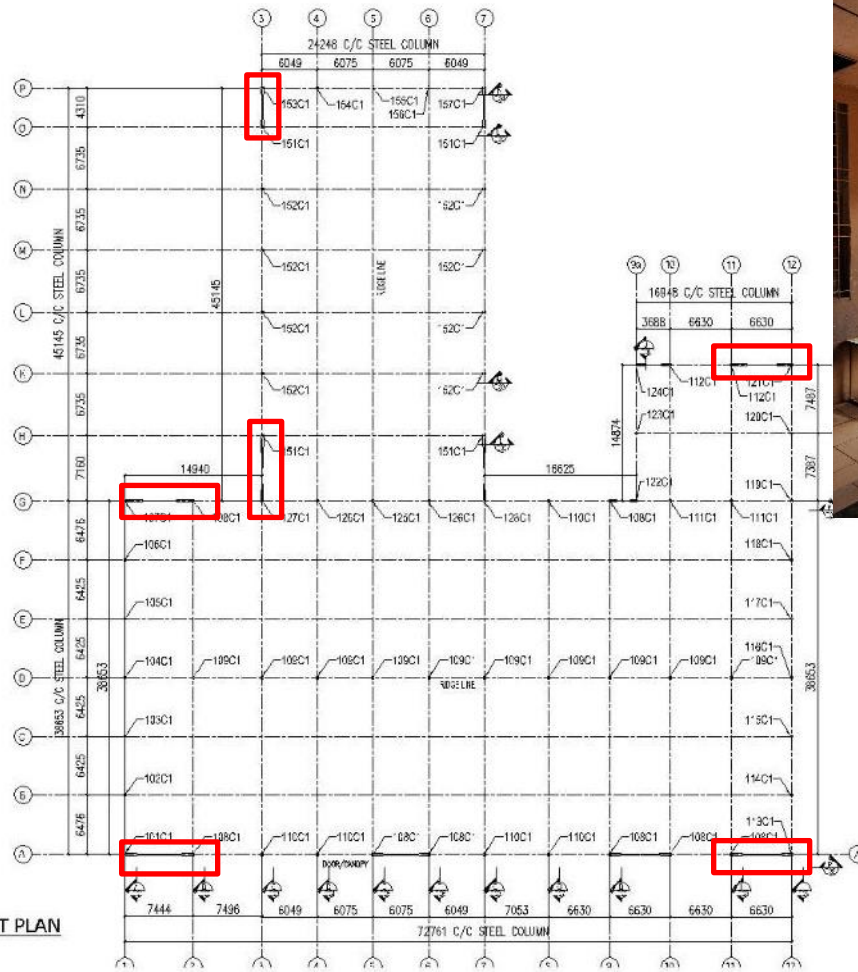
No compression strut/Load transfer media has been provided in the long direction. No design report was available on site. Building engineer is required to check the requirement of the any load transfer media in the long direction.

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 as per BNBC. At the time of inspection, only as-built drawing, load plan and geotechnical report were available, but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).



No design report was available for printing shed

Vertical bracing missing



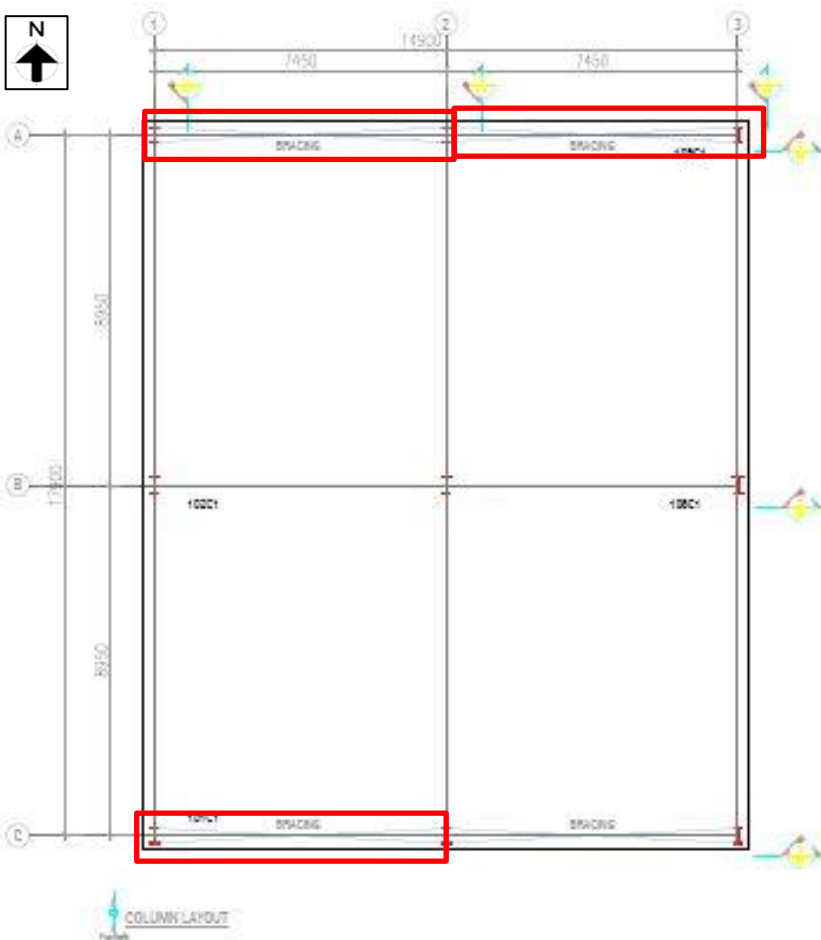
Column & Vertical bracing layout plan

Vertical bracing found missing in several location.



Vertical bracing missing in several location

Observations: Building 14- Utility Building



Column & Bracing Layout plan



Vertical bracing found missing in several location. Building engineer is required to check the lateral stability of the building.

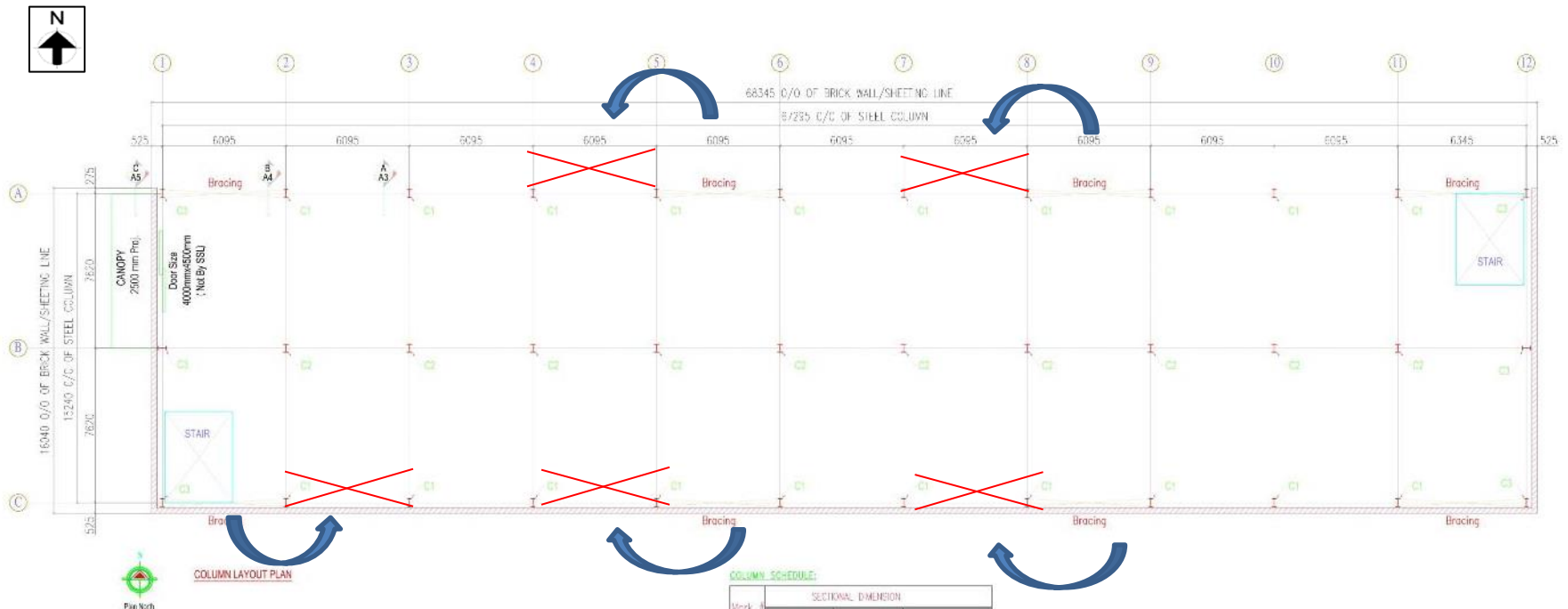
Observations: Building 14-Utility Building

Falling hazard at roof



No edge protection provided on roof

Wall Bracings at ground floor shifted



On site Vertical bracing at ground floor shifted from the construction drawing. Building engineer is required to check the existing bracing system for the lateral stability.



Shifted bracing

Absence of load transfer media in the long direction

Observations: Shed 16- Garments Dyeing & Seamless



No compression strut/Load transfer media has been provided in the long direction. No design report was available on site. Building engineer is required to check the requirement of the any load transfer media in the long direction.

Observations: Shed 16- Garments Dyeing & Seamless

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 as per BNBC. At the time of inspection, only as-built drawing, load plan and geotechnical report were available, but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).

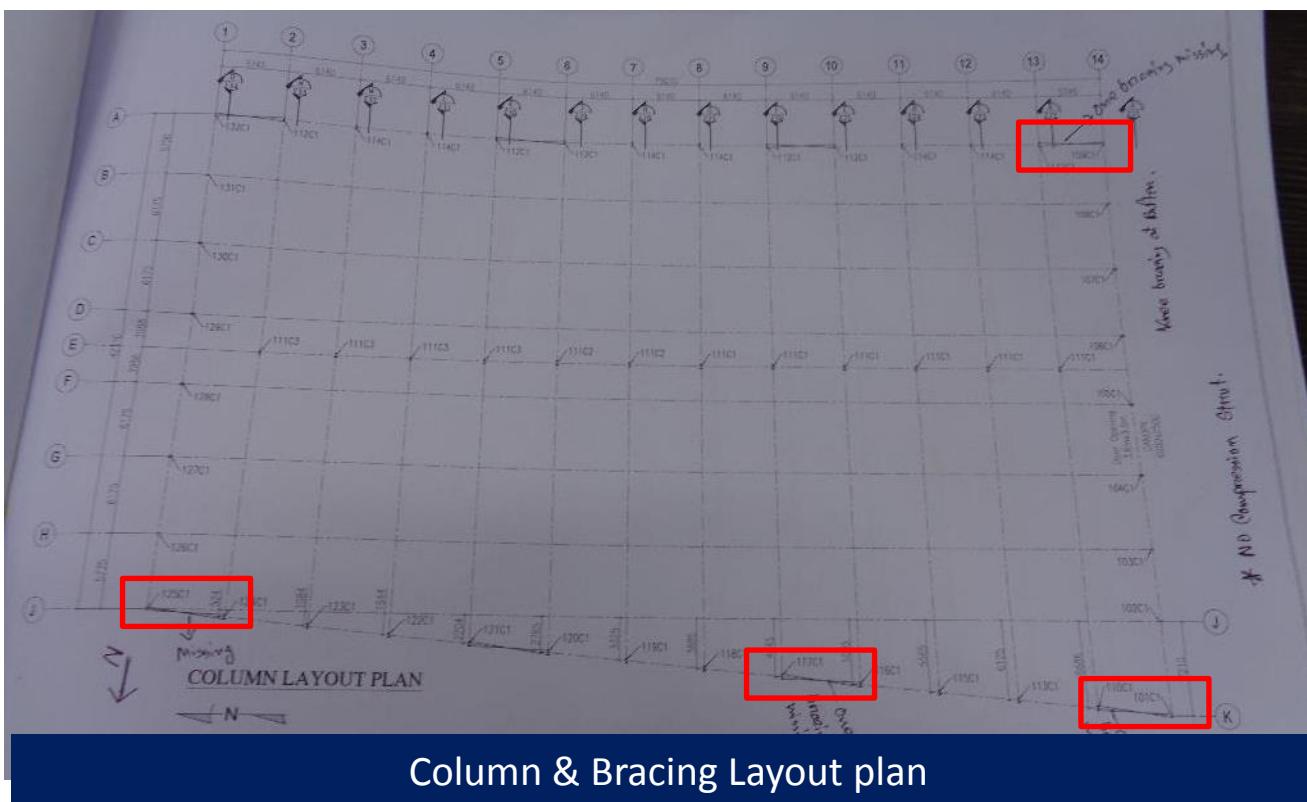


No design report was available for Garments Dyeing & Seamless Shed

Observations: Shed 16- Garments Dyeing & Seamless

Vertical bracing missing in several location

Observations: Shed 16- Garments Dyeing & Seamless



Column & Bracing Layout plan

Vertical bracing found missing in several location.
Building engineer is required to check the lateral stability
of the building.



Observations: Shed 16- Garments Dyeing & Seamless

Absence of load transfer media in the long direction



No compression strut/Load transfer media has been provided in the long direction. No design report was available on site. Building engineer is required to check the requirement of the any load transfer media in the long direction.

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 as per BNBC. At the time of inspection, only as-built drawing, load plan and geotechnical report were available, but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).



No design report was available for Store & Prayer Shed

Problems Observed

Building 09- Store & Dining building

Item 1: Structural design reports not available.

Item 2: Implement floor loading management program.

Shed 15 -Printing Shed:

Item 3: Absence of load transfer media in the long direction.

Item 4: Vertical bracing missing.

Building 14- Utility Building:

Item 5: Vertical bracing missing in several location.

Building 10 -Color Service Building:

Item 6: Falling hazard at roof.

Shed 13- Garments Dyeing Extension:

Item 7: Wall Bracings at ground floor shifted.

Shed 16- Garments Dyeing & Seamless Shed:

Item 8: Absence of load transfer media in the long direction.

Item 9: Vertical bracing missing in several location.

Shed 17- Store & Prayer Shed:

Item 10: Absence of load transfer media in the long direction.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Structural design reports not available. (Building 09- Store & Dining building).	Building engineer to prepare the design document including a design report and a set of structural drawings in compliance with section 1.9.1.1 and section 1.9.1.2 as per BNBC.	6-weeks
02	Structural design reports not available. (Building 09- Store & Dining building).	Complete implementation of any remedial works deemed necessary by the design review.	6-months
03	Implement floor loading management program. (Building 09- Store & Dining building)	Factory is required to implement load management program by posting, maintaining load plan as per its floor loading capacity.	6-weeks
04	Absence of load transfer media in the long direction. (Shed 15- Printing Shed)	Building engineer is required to check the requirement of the any load transfer media in the long direction.	6-weeks
05	Absence of load transfer media in the long direction. (Shed 15- Printing Shed)	Building Engineer to prepare design report as per BNBC (part-6; Article 1.9.1) by reviewing design, loads and lateral stability.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Absence of load transfer media in the long direction. (Shed 15- Printing Shed)	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months
07	Vertical bracing missing. (Shed 15- Printing Shed).	Building Engineer to Investigate and report on this matter to verify the Structural Integrity of the beams are not compromised.	6-weeks
08	Vertical bracing missing. (Shed 15- Printing Shed).	Building engineer is required to check the lateral stability of the shed.	6-weeks
09	Vertical bracing missing. (Shed 15- Printing Shed).	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months
10	Vertical bracing missing in several location. (Shed 14- Utility Building)	Building engineer is required to re-install all the missing bracing as per the design specifications.	6-weeks
11	Vertical bracing missing in several location. (Shed 14- Utility Building)	Building engineer is required to check the lateral stability of the shed.	6-weeks
12	Vertical bracing missing in several location. (Shed 14- Utility Building)	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
13	Falling hazard at roof. (Building 10- Color Service Building)	Complete implementation of any remedial works deemed necessary by the Design Report.	6-weeks
14	Wall Bracings at ground floor shifted. (Shed 13- Garments Dyeing Extension)	Building engineer is required to check the existing bracing system for the lateral stability.	6-weeks
15	Wall Bracings at ground floor shifted. (Shed 13- Garments Dyeing Extension)	Building Engineer to prepare design report as per BNBC (part-6; Article 1.9.1) by reviewing design, loads and lateral stability.	6-weeks
16	Wall Bracings at ground floor shifted. (Shed 13- Garments Dyeing Extension)	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months
17	Absence of load transfer media in the long direction. (Shed 16- Garments Dyeing & Seamless Shed).	Building engineer is required to check the requirement of the any load transfer media in the long direction.	6-weeks
18	Absence of load transfer media in the long direction. (Shed 16- Garments Dyeing & Seamless Shed).	Building Engineer to prepare design report as per BNBC (part-6; Article 1.9.1) by reviewing design, loads and lateral stability.	6-weeks
19	Absence of load transfer media in the long direction. (Shed 16- Garments Dyeing & Seamless Shed).	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
20	Vertical bracing missing in several location. (Shed 16- Garments Dyeing & Seamless Shed)	Building engineer is required to re-install all the missing bracing as per the design specifications.	6-weeks
21	Vertical bracing missing in several location. (Shed 16- Garments Dyeing & Seamless Shed)	Building engineer is required to check the lateral stability of the shed.	6-weeks
22	Vertical bracing missing in several location. (Shed 16- Garments Dyeing & Seamless Shed)	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months
23	Absence of load transfer media in the long direction. (Shed 17- Store & Prayer Shed)	Building engineer is required to check the requirement of the any load transfer media in the long direction.	6-weeks
24	Absence of load transfer media in the long direction. (Shed 17- Store & Prayer Shed)	Building Engineer to prepare design report as per BNBC (part-6; Article 1.9.1) by reviewing design, loads and lateral stability.	6-weeks
25	Absence of load transfer media in the long direction. (Shed 17- Store & Prayer Shed)	Complete implementation of any remedial works deemed necessary by the Design Report.	6-months