Liberty Knitwear Ltd. Unit-2 (Extension 2)

G-88/1, Chandra, Palli Biddyut, Kaliakoir, Gazipur-1751, Bangladesh
(24.036231, 90.253719)

10 July 2023

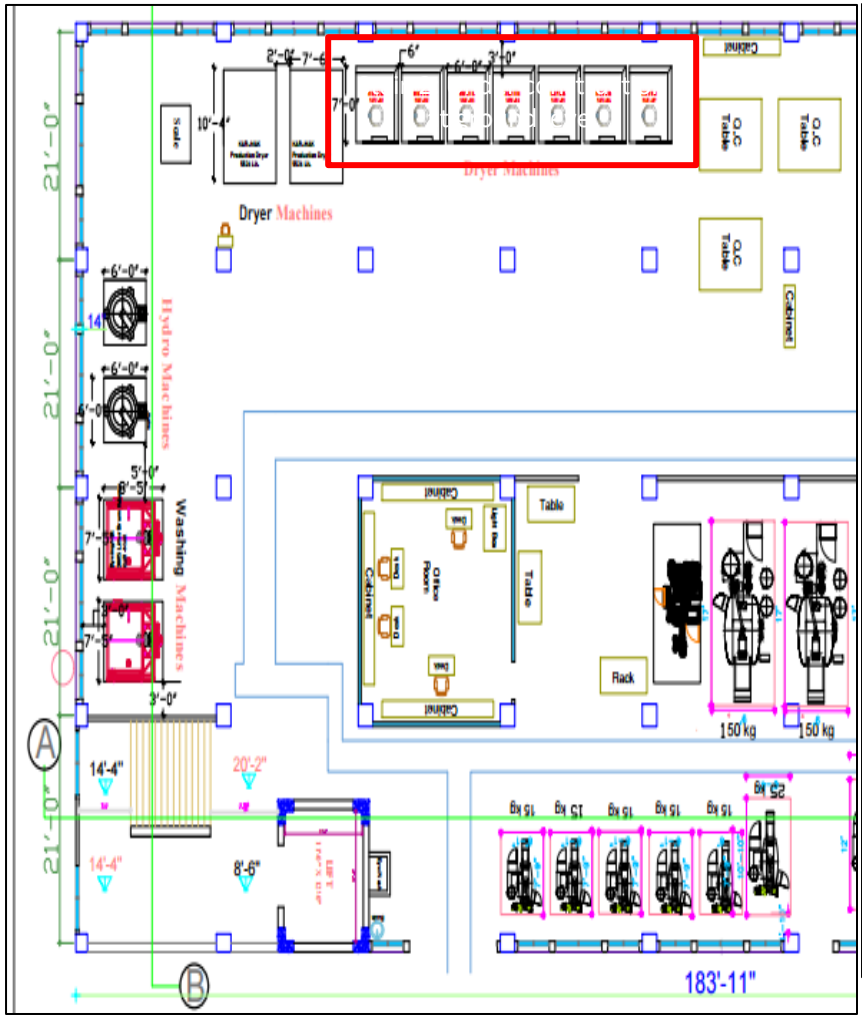
RSC RMG SUSTAINABILITY COUNCIL

Building Information

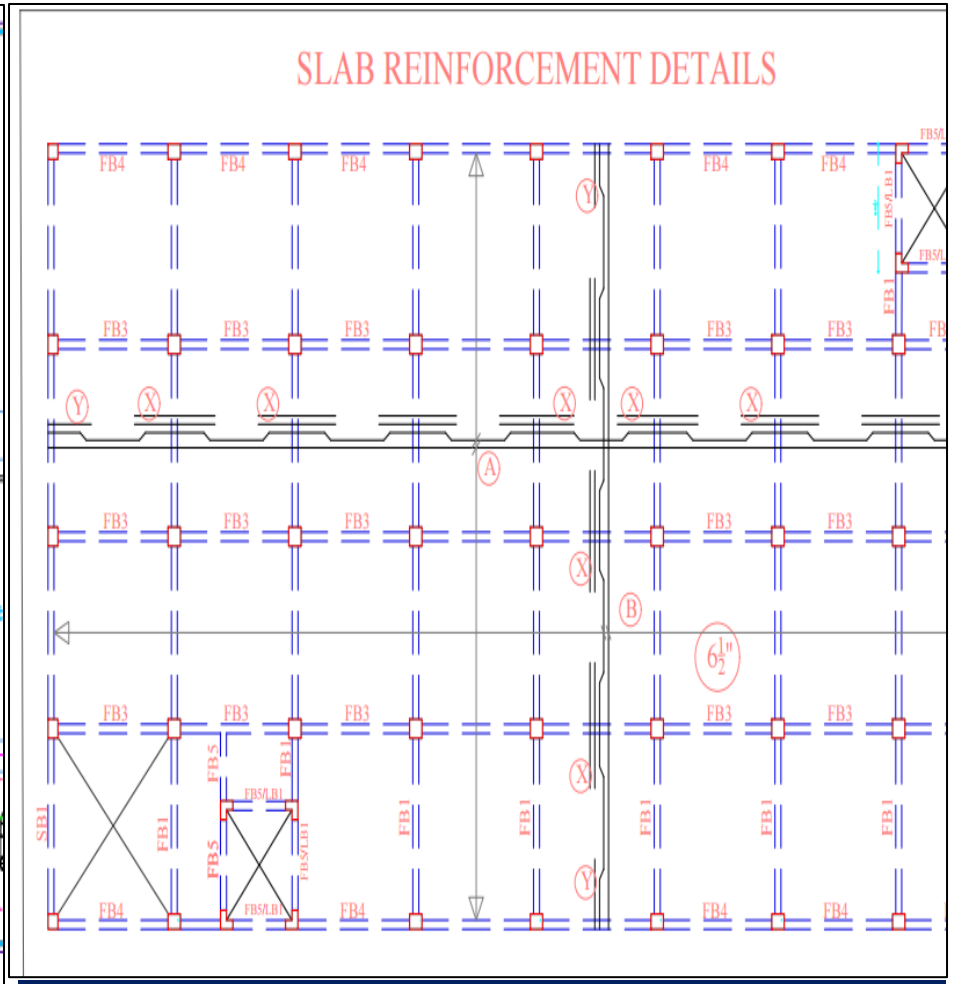
1. **West Tower Building:** This structure is an eight storied (G+7) reinforced concrete (RC) building
2. **Yarn Building:** This structure is an eight storied (G+7) reinforced concrete (RC) building
3. **Jhut Boiler Shed:** This structure is a single storied shed

Observations

Lack of information in As-Built Drawing



Floor level from EGL and built-up height in toilet block area is not mentioned in architectural drawing.

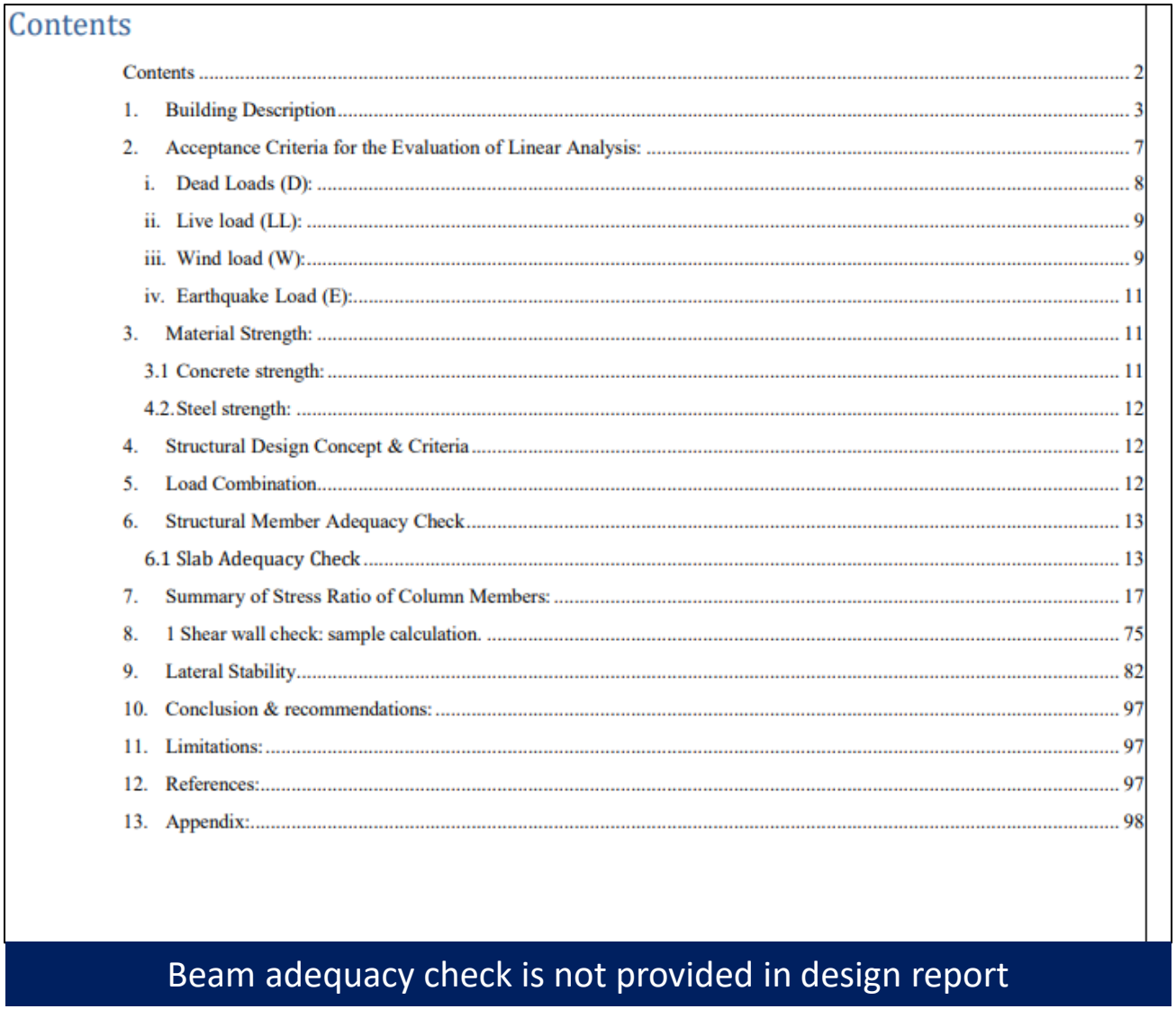


Grade slab and floor slab reinforcement detailing is missing in as-built structural drawing. The building engineer is required to survey the structures and prepare accurate as-built drawings. Submit the drawing to the RSC for review.

Observations: West Tower Building

Lack of information & beam design check in design report

Observations: West Tower Building



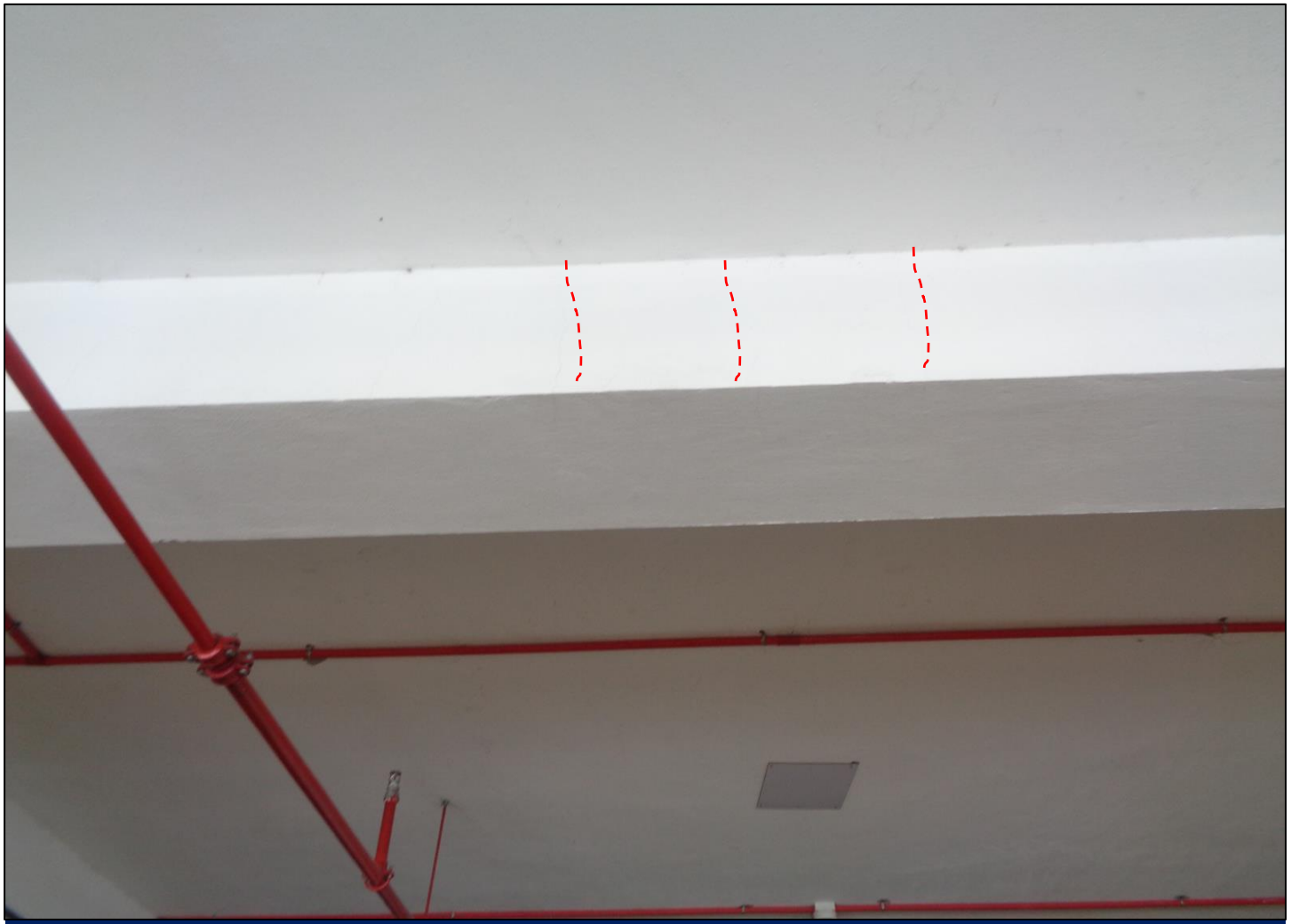
Contents

Beam adequacy check is not provided in design report

Beam adequacy check is not provided in design report. Building engineer is required to update the design report including all requirements of BNBC 1.9.1.

Observations: West Tower Building

Cracks on Roof Beam



Cracks on roof beam

Hairline cracks were observed on roof beams. . Building engineer is required to investigate the cracks and carry out suitable repair work as per recommendation of investigation report.

Observations: West Tower Building

Exposed reinforcement left at roof level

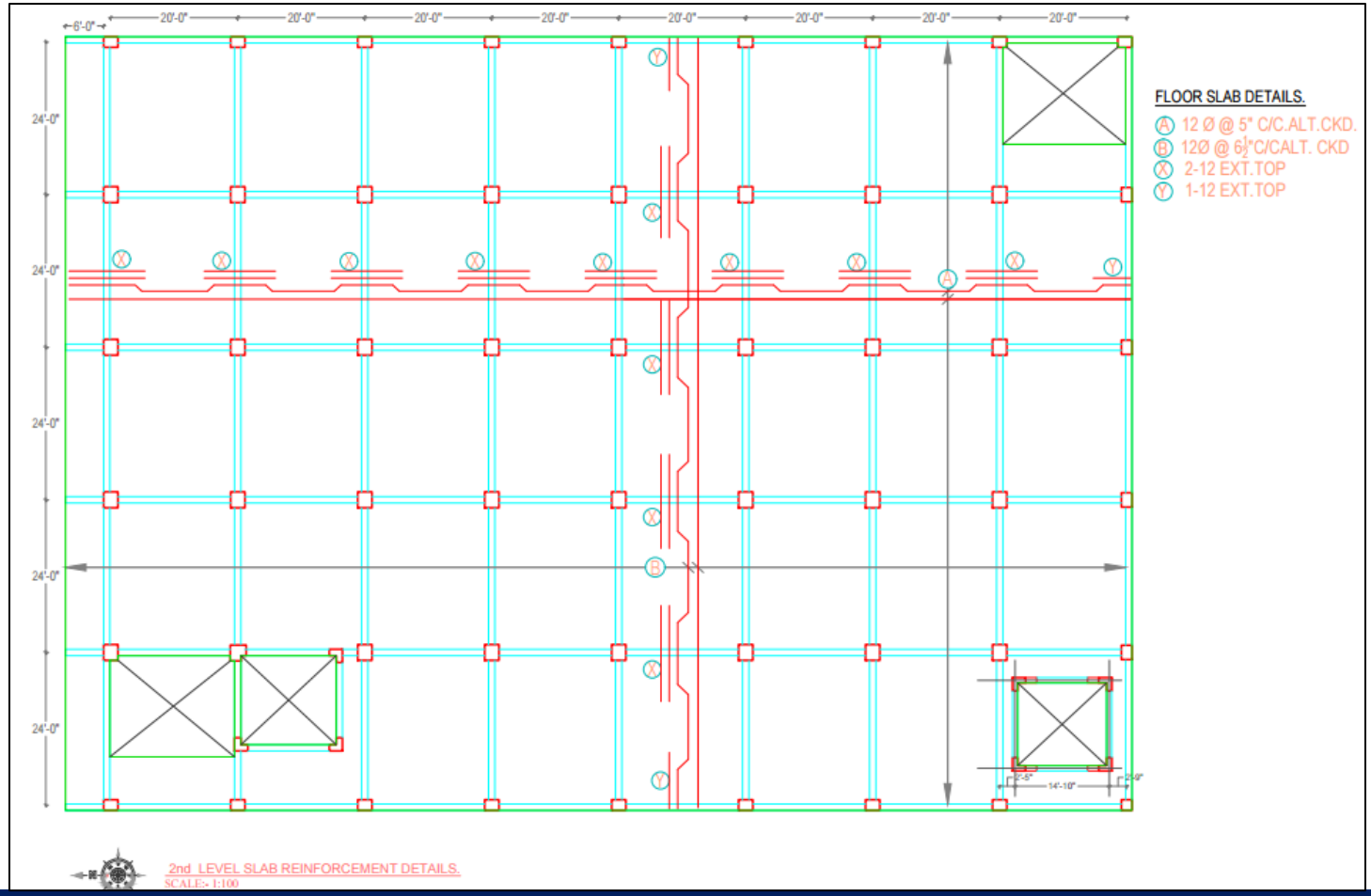
Observations: West Tower Building

Exposed reinforcement is left at roof level & staircase which was prone to corrosion. Building engineer is required to provide rust proof paint on exposed reinforcement to protect from corrosion.

Observations: West Tower Building

Lack of information in As-Built Drawing

Observations: Yarn Building



Slab thickness is not mentioned. Grade Slab thickness and rebar detailing is not shown. Building engineer is required to resurvey the whole structure and update as-built drawing accordingly.

Observations: Yarn Building

Lack of information & beam design check in design report

Observations: Yarn Building

Contents

Beam adequacy check is not provided in design report

Beam adequacy check is not provided in design report. Building engineer is required to update the design report including all requirements of BNBC 1.9.1.

Observations: Yarn Building

Absence of design report

Jhut Boiler Shed

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, design report was not available which is required to be prepared in compliance with with BNBC (section 1.9.1).

Observations: Jhut Boiler Shed

Absence of design report

Connecting Bridge

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, design report was not available which is required to be prepared in compliance with with BNBC (section 1.9.1).

Observations: Connecting Bridge

Problems Observed

West Tower Building:

Item 01: Lack of information in As-Built Drawing

Item 02: Lack of information & beam design check in design report

Item 03: Cracks on Roof Beam

Item 04: Exposed reinforcement left at roof level

Yarn Building:

Item 05: Lack of information in As-Built Drawing

Item 06: Lack of information & beam design check in design report

Jhut Boiler Shed:

Item 07: Absence of design report

Connecting Bridge:

Item 08: Absence of design report

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Lack of information in As-Built Drawing (West Tower Building)	Building engineer is required to survey the structure and produce accurate as-built architectural & structural drawings.	6-weeks
02	Lack of information & beam design check in design report. (West Tower Building)	Building engineer is required to update the design report including all requirements of BNBC 1.9.1.	6-weeks
03	Lack of information & beam design check in design report. (West Tower Building)	Carry out the remedial works if required.	6-months
04	Cracks on Roof Beam. (West Tower Building)	Building engineer is required to investigate the cracks and carry out suitable repair work as per recommendation of investigation report.	6-weeks
05	Exposed reinforcement left at roof level. (West Tower Building)	Building engineer is required to remove the corrosion and apply suitable anti-corrosive coating to the affected rebars.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Lack of information in As-Built Drawing (Yarn Building)	Building engineer is required to survey the structure and produce accurate as-built architectural & structural drawings.	6-weeks
07	Lack of information & beam design check in design report. (Yarn Building)	Building engineer is required to update the design report including all requirements of BNBC 1.9.1.	6-weeks
08	Lack of information & beam design check in design report. (Yarn Building)	Carry out the remedial works if required.	6-months
09	Absence of design report. (Jhut Boiler Shed)	Building engineer is required to prepare a design report in compliance with BNBC (part-6, section 1.9.1.1).	6-weeks
10	Absence of design report. (Jhut Boiler Shed)	Carry out remedial works (if required).	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
11	Absence of design report. (Connecting Bridge)	Building engineer is required to prepare a design report in compliance with BNBC (part-6, section 1.9.1.1).	6-weeks
12	Absence of design report. (Connecting Bridge)	Carry out remedial works (if any) after review by RSC.	6-months