

Unisense Apparels Ltd (Extension)

Beraider Chala, Sreepur, Gazipur
(24.20003, 90.42065)

26th January 2021



Buildings Information

1. Knitting Section (Shed-1) (G+1)
2. Boiler and Compressor Room (Utility Building-1) (Single Storied Building)

Observations

Serviceability checks not addressed in design report

**STRUCTURAL DESIGN REPORT OF
UNISENSE APPARELS LIMITED**

(Proposed Two Storied Shed)

AT

ANSAR ROAD ,SREEPUR,GAZIPUR

CONSULTANT:

Z2 Consultancy Solutions
Kalmessor, Board Bazar, National
University, Gazipur sadar, Gazipur.

Design report

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. The design report was available on-site but serviceability checks as per BNBC not addressed. Building engineer is required to prepare design report in compliance with section 1.9.1.1 (part 6 BNBC)

Bolts missing & faulty connection



Missing bolts in the connection



Improper connection observed at rafter and column joint.

Corrosion on external steel stair



Corrosion observed on the external steel stair. Building engineer is required to provide rust proofing to the steel member.

As-built drawings not available onsite

Observations: Boiler & Compressor Room

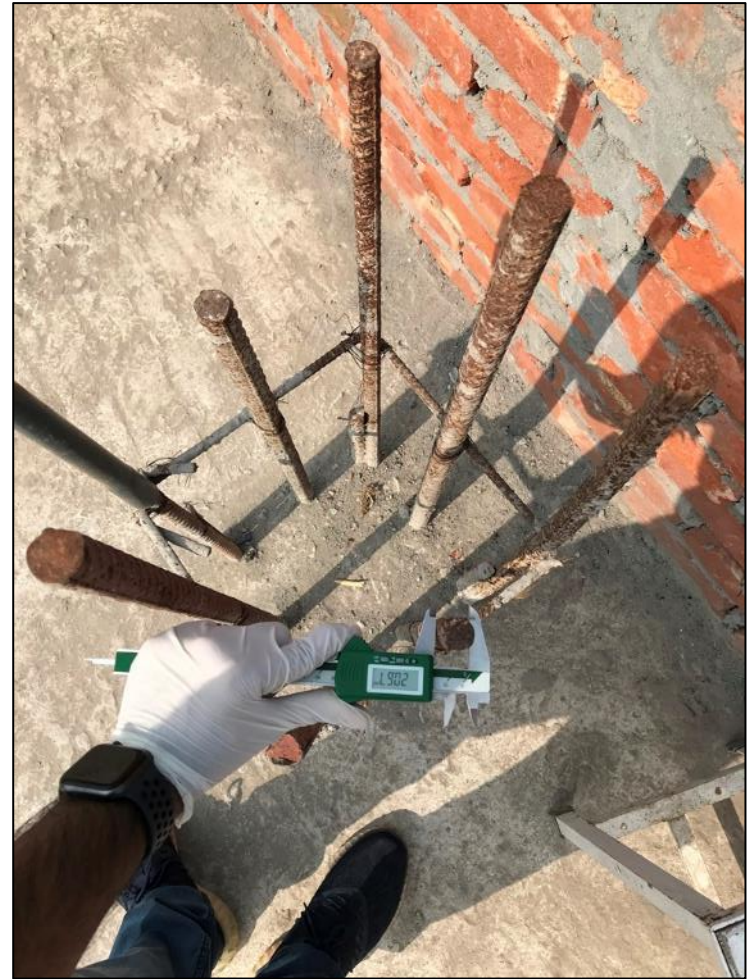


No as-built drawings were available onsite. Building engineer is required to prepare as-built drawings.

Exposed rebar at roof top



Exposed rebar of beam and slab



Exposed rebar of column at roof

Exposed rebar observed at roof top of boiler and compressor room. Building engineer is required to provide rust proofing to these exposed rebar.

Problems Observed

Knitting Section:

- 1: Serviceability checks not addressed in design report.
- 2: Bolts missing & faulty connection.
- 3: Corrosion on external steel stair.

Boiler & Compressor Room :

- 4: As-built drawings not available onsite.
5. Exposed rebar at roof top.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Serviceability checks not addressed in design report. (Knitting Section)	Check all the serviceability as per BNBC in the design report.	6-weeks
02	Serviceability checks not addressed in design report. (Knitting Section)	Building Engineer to prepare design report as per BNBC (part 6; Article 1.9.1) by reviewing design, loads and capacity of structural members.	6-weeks
03	Serviceability checks not addressed in design report. (Knitting Section)	Implement any remedial works from the design report.	6-months
04	Bolts missing & faulty connection. (Knitting Section)	Install the missing bolts as per specification.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
05	Bolts missing & faulty connection. (Knitting Section)	Building engineer is required to check the adequacy of the column and rafter joints at that location.	6-weeks
06	Bolts missing & faulty connection. (Knitting Section)	Carry out remedial works where necessary.	6-months
07	Corrosion on external steel stair. (Knitting Section)	Apply rust proof paint to the corroded members.	6-weeks
08	As-built drawings not available onsite. (Boiler & Compressor Room)	Building engineer to survey the structure and prepare accurate as-built structural drawings.	6-weeks
09	Exposed rebar at roof top. (Boiler and Compressor Room)	Apply rust proof paint or material to the rebar of column, beam & slab.	6-weeks