Zaber & Zubair Fabrics Ltd (Extension)

Pagar, Tongi, Gazipur Tongi, Gazipur Dhaka
(23.895514, 90.428896)
18th October 2021

RSC RMG SUSTAINABILITY COUNCIL

Building Information

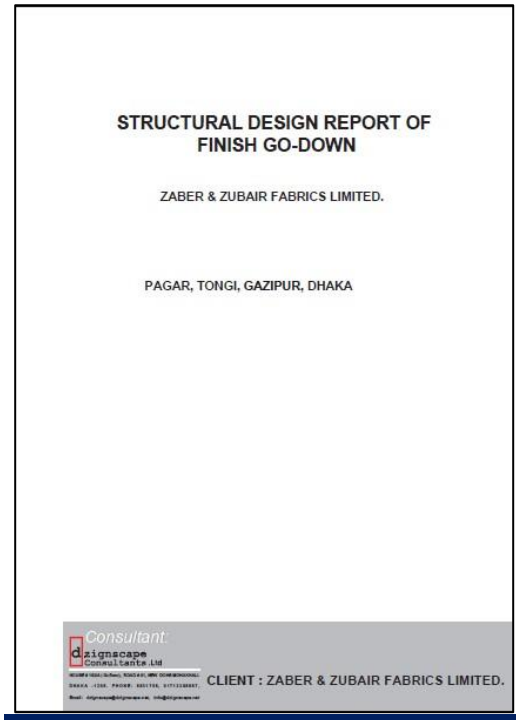
Finished Go-down and: (G)

Lab & Office Building: (G+1)

Observations

Design report needs to be reviewed by RSC

Observation: Finished Go-down

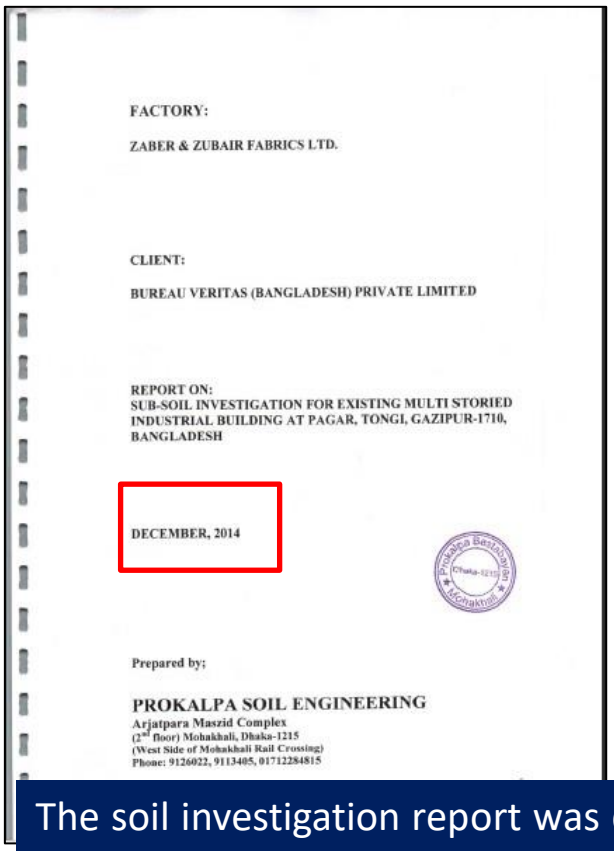

STRUCTURAL DESIGN REPORT OF
FINISH GO-DOWN

ZABER & ZUBAIR FABRICS LIMITED.

PAGAR, TONGI, GAZIPUR, DHAKA

Consultant:
dzignscape Consultants Ltd
CLIENT : ZABER & ZUBAIR FABRICS LIMITED.

Cover page of Detail Engineering Assessment report


FACTORY:

ZABER & ZUBAIR FABRICS LTD.

CLIENT:

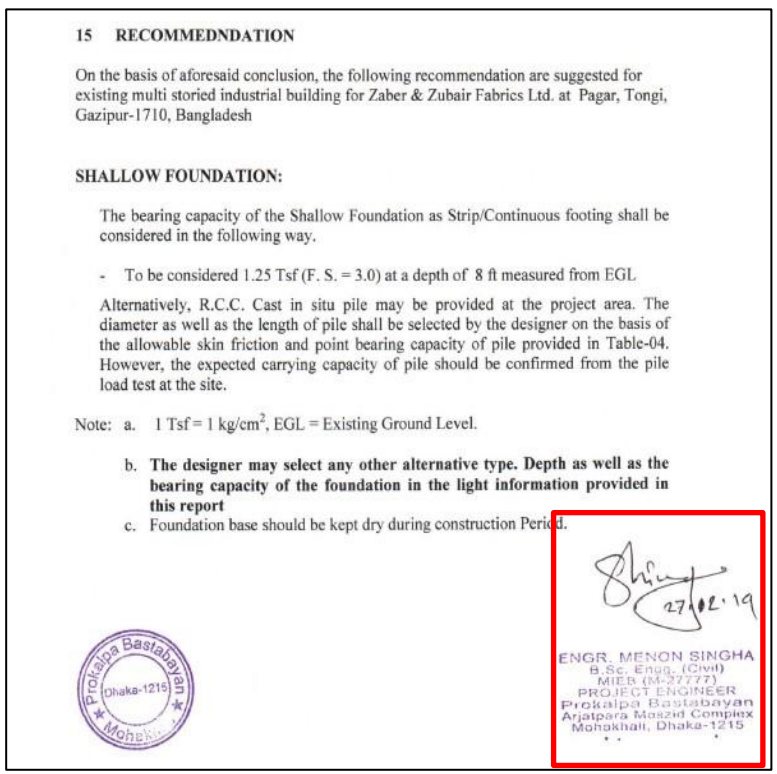
BUREAU VERITAS (BANGLADESH) PRIVATE LIMITED

REPORT ON:
SUB-SOIL INVESTIGATION FOR EXISTING MULTI STORIED INDUSTRIAL BUILDING AT PAGAR, TONGI, GAZIPUR-1710, BANGLADESH

DECEMBER, 2014

Prepared by:

PROKALPA SOIL ENGINEERING
Arjatpara Maszid Complex
(2nd floor) Mohakhali, Dhaka-1215
(West Side of Mohakhali Rail Crossing)
Phone: 9126022, 9113405, 01712284815


15 RECOMMEDNDATION

On the basis of aforesaid conclusion, the following recommendation are suggested for existing multi storied industrial building for Zaber & Zubair Fabrics Ltd. at Pagar, Tongi, Gazipur-1710, Bangladesh

SHALLOW FOUNDATION:

The bearing capacity of the Shallow Foundation as Strip/Continuous footing shall be considered in the following way.

- To be considered 1.25 Tsf (F. S. = 3.0) at a depth of 8 ft measured from EGL

Alternatively, R.C.C. Cast in situ pile may be provided at the project area. The diameter as well as the length of pile shall be selected by the designer on the basis of the allowable skin friction and point bearing capacity of pile provided in Table-04. However, the expected carrying capacity of pile should be confirmed from the pile load test at the site.

Note: a. 1 Tsf = 1 kg/cm^2, EGL = Existing Ground Level.

b. **The designer may select any other alternative type. Depth as well as the bearing capacity of the foundation in the light information provided in this report**

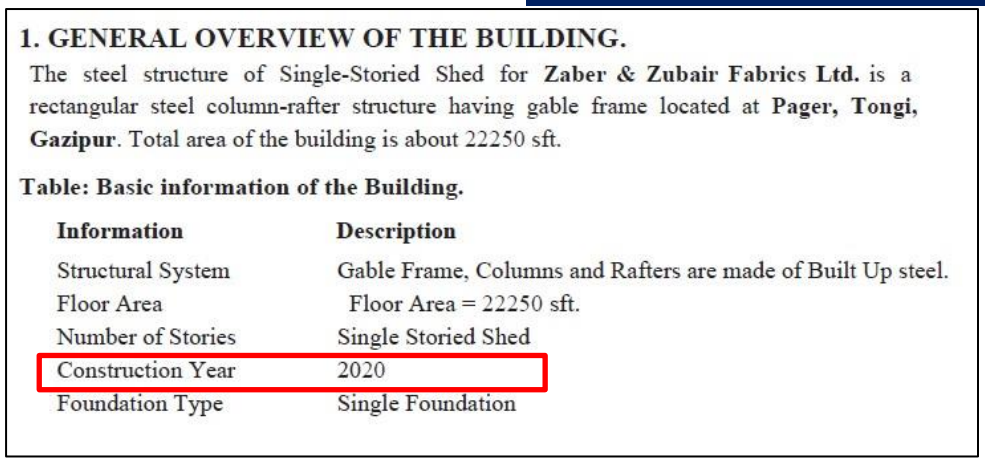
c. Foundation base should be kept dry during construction Period.

Prokalpa Bastabayan Dhaka-1215 Mohakhali

27.02.19

ENGR. MENON SINGHA
B.Sc. Engg. (Civil)
MIEB (M-27777)
PROJECT ENGINEER
Prokalpa Bastabayan
Arjatpara Maszid Complex
Mohakhali, Dhaka-1215

The soil investigation report was dated December 2014 for a existing multi-storied industrial building.


1. GENERAL OVERVIEW OF THE BUILDING.

The steel structure of Single-Storied Shed for **Zaber & Zubair Fabrics Ltd.** is a rectangular steel column-rafter structure having gable frame located at **Pager, Tongi, Gazipur**. Total area of the building is about 22250 sft.

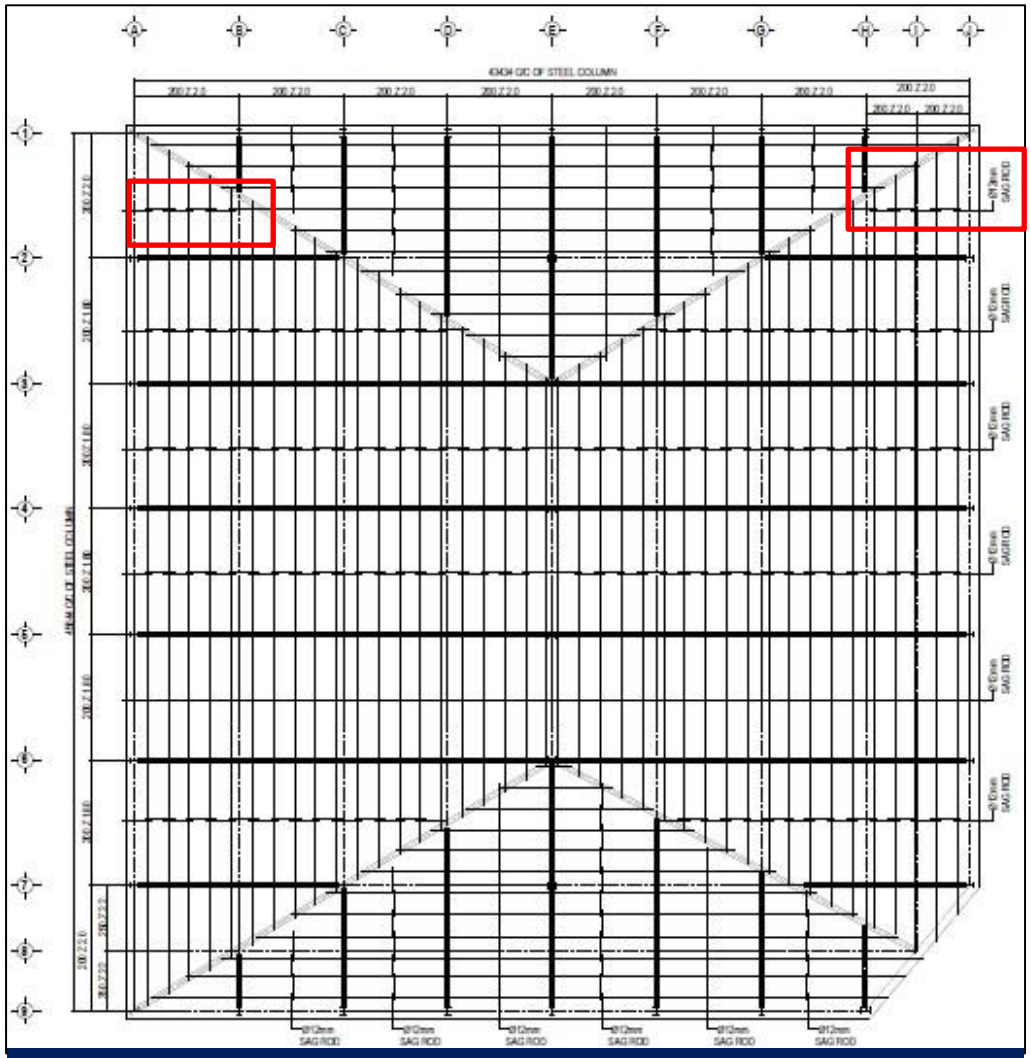
Table: Basic information of the Building.

Information	Description
Structural System	Gable Frame, Columns and Rafters are made of Built Up steel.
Floor Area	Floor Area = 22250 sft.
Number of Stories	Single Storied Shed
Construction Year	2020
Foundation Type	Single Foundation

The single storied steel shed was constructed between March 2019 and December 2020. This Building is being occupied since December 2020.

So, the soil test report do not represent the soil condition of the structure.
Factory engineer is required to justify the soil investigation report for this single storied shed.

Observations: Finished Go-down



Sag rod Layout plan- Sag rod was not found at site at marked location but shown in as-built drawing.

Factory engineer is required to survey the whole structure and update the as-built drawing.

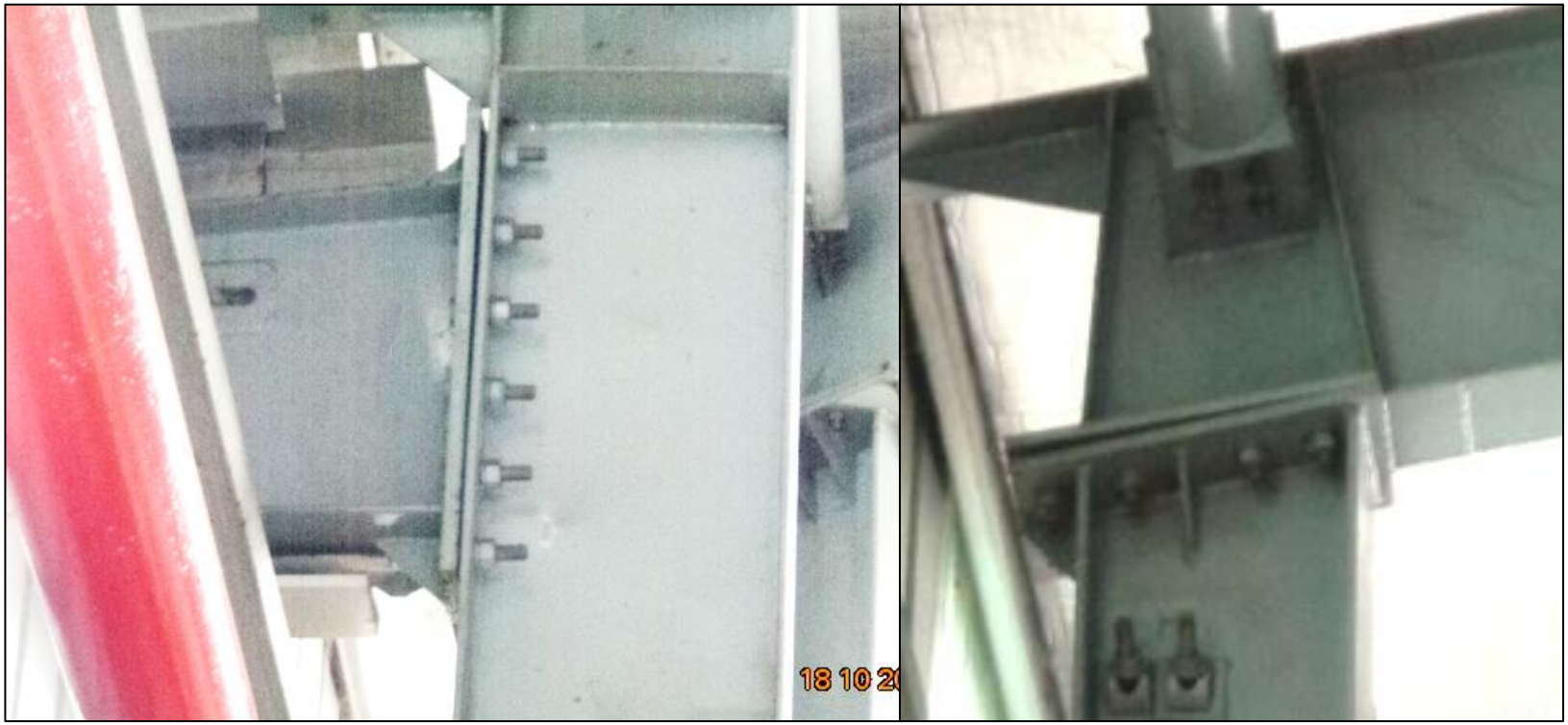
Sag rod found missing at site

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. Factory engineer is required to update the design documents in compliance with section 1.9.1 (part-6, BNBC).

Observations: Finished Go-down

Gap between connection plates at several locations

Observation: Finished Go-down



Gap between connection plates was observed in several locations. Factory engineer is required to identify the locations of connection gap and carry out suitable remedial works.

Observation: Finished Go-down

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Problems Observed

Finished Go-down:

Item 1: Design report needs to be reviewed by RSC

Item 2: Connection gap at several location

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Design report needs to be reviewed by RSC	Factory engineer to revise the design documents including a design report and a set of structural drawings in compliance with BNBC and submit to RSC for further review.	6-weeks
02	Design report needs to be reviewed by RSC	Carry out remedial/alteration works if necessary.	6-months
03	Gap between connection plates at several locations.	Identify the locations and carryout suitable repair works where necessary.	6-weeks