

Tusuka Stitches Ltd.

40/4, Hazrat Shahjalal Road, Rajnagar, Sataish, Tongi.
(23.92210, 90.35882)

10th October 2021



Buildings Information

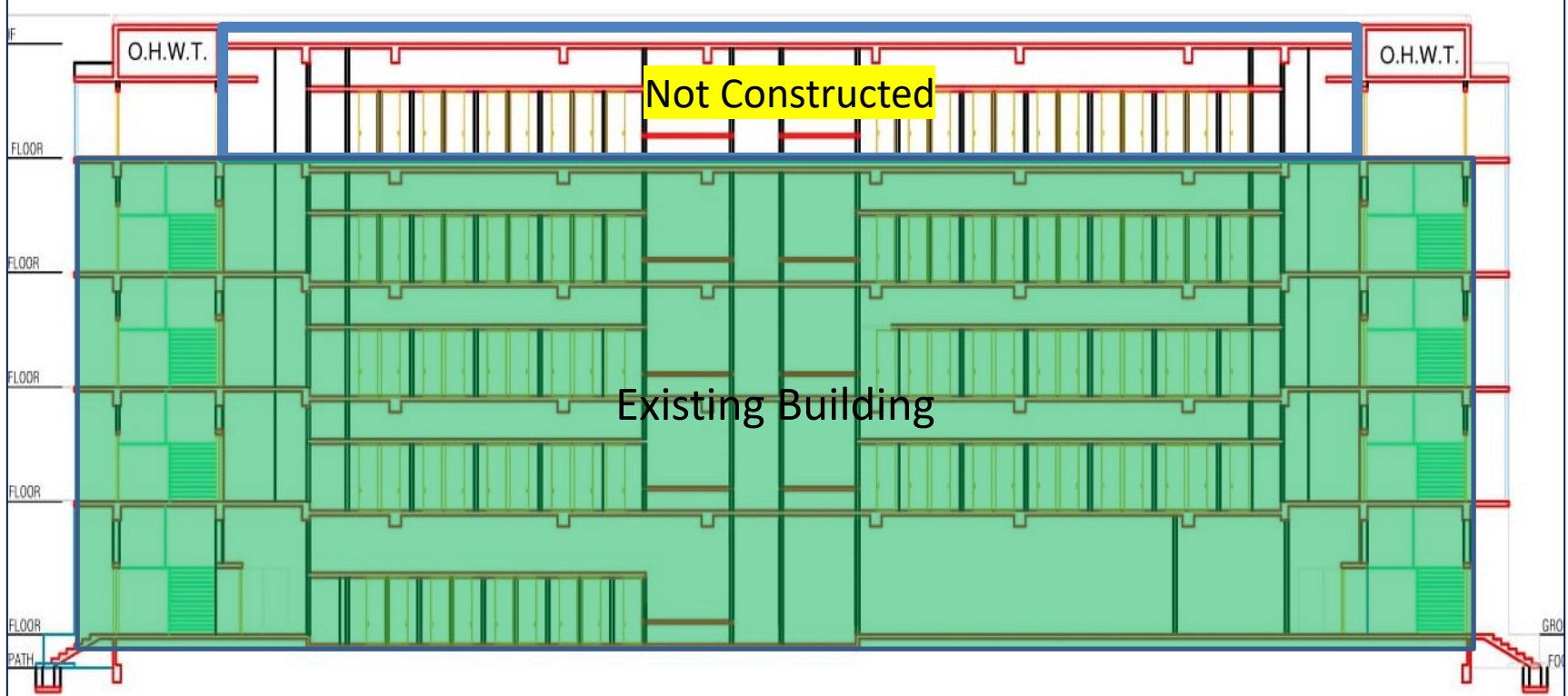
1. Building 1 (G+3)
2. Building 3 (G+2)

Observations

Verify insitu concrete strength for proposed 4th floor (Vertical Extension over 3rd floor)

Observations: Building 1

Only two sets of concrete cylinder test were available for column. FoS of columns are found satisfactory considering minimum concrete strength of stone for existing building.



The factory has a plan to construct an additional floor. The cursory calculation indicates that columns are marginally stressed above normal design limit considering minimum concrete strength of stone chips aggregate . The building engineer is required to verify insitu concrete strength by taking 100 mm diameter cores from the column and review the design before commencing any vertical extension works.

Signage of dampness

Observations: Building 1



Signage of dampness observed in the building. Building engineer is required to identify the reason of the dampness and suggest suitable repair works.

Lack of construction safety practice in local refabrication works



Lack of construction safety practice works observed around the renovation area. No caution sign, safety barrier, PPE of the construction worker observed. Building engineer to ensure all the construction safety practices are implemented around the renovation areas.

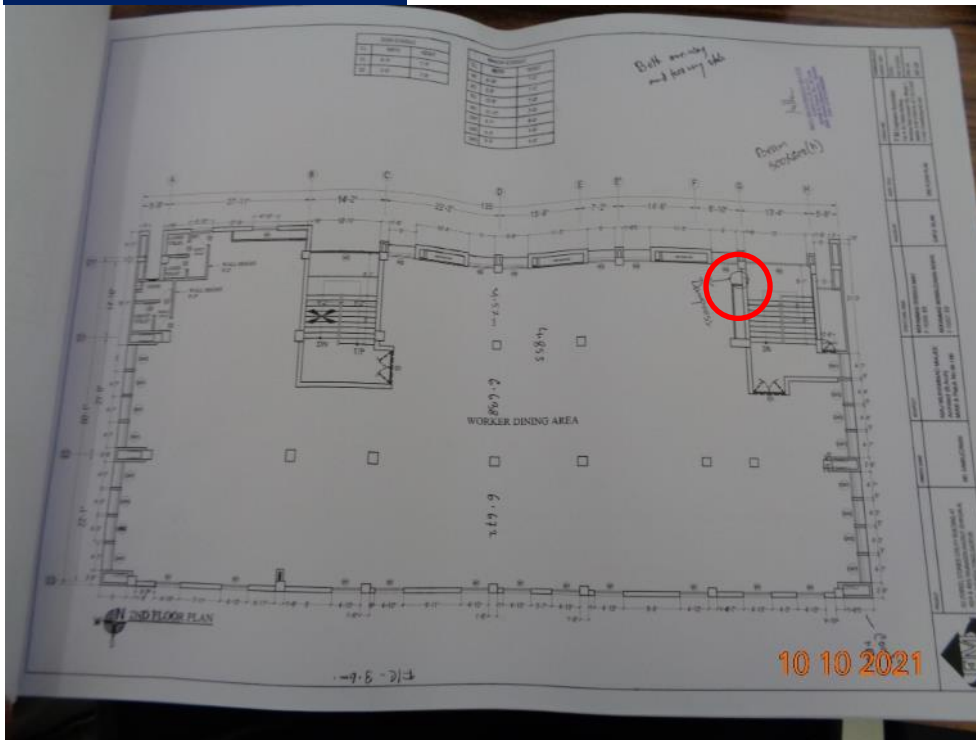
Lack of as-built drawing of roof shed



No as-built drawings were available onsite for the roof shed. Building engineer is required to produce a as-built drawings.

Signage of dampness

2nd floor layout plan



Signage of dampness observed in the building. Building engineer is required to identify the reason of the dampness and suggest suitable repair works.

Problems Observed

Building 1

- 01: Verify insitu concrete strength for proposed 4th floor (Vertical Extension over 3rd floor).
- 02: Signage of dampness.
- 03: Lack of construction safety practice in local refabrication works.
- 04: Lack of as-built drawing of roof shed.

Building 3

- 05: Signage of dampness.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Verify insitu concrete strength for proposed 4th floor (Vertical Extension over 3rd floor). (Building 1)	Building engineer is required to verify insitu concrete strength by taking 100 mm diameter cores from column and review the design before commencing any vertical extension works.	6-months
02	Verify insitu concrete strength for proposed 4th floor (Vertical Extension over 3rd floor). (Building 1)	Building engineer is required to complete the DEA and the recommendation before commencing the vertical extension works.	6-months
03	Signage of dampness. (Building 1)	Building engineer is required to identify the reason of the dampness and suggest suitable repair works.	6-weeks
04	Signage of dampness. (Building 1)	Carryout repair works where necessary.	6-weeks
05	Lack of construction safety practice in local refabrication works. (Building 1)	Building engineer to ensure all the construction safety practices are implemented around the renovation areas.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Lack of as-built drawing of roof shed. (Building 1)	Building engineer is required to produce a as-built drawings of the roof shed.	6-weeks
07	Signage of dampness. (Building 3)	Building engineer is required to identify the reason of the dampness and suggest suitable repair works.	6-weeks
08	Signage of dampness. (Building 3)	Carryout repair works where necessary.	6-weeks