



NRN Knitting & Garments Ltd.

181, Jamgara, Ashulia, Dhaka.

(23.930750N,90.285877E)

24th August, 2016





Observations



Worker safety during construction.

Observation



Apparently no safety measures were observed to ensure workers safety during construction.



Building's Engineer to ensure this works are carried out in safe manner and keep a safety area on street around the buildings during the works

Observation



Exposed rebar at roof and floor levels.

Observation



Part-B of the building will be constructed in future. Rebar kept exposed without any corrosion protection in Part-A.

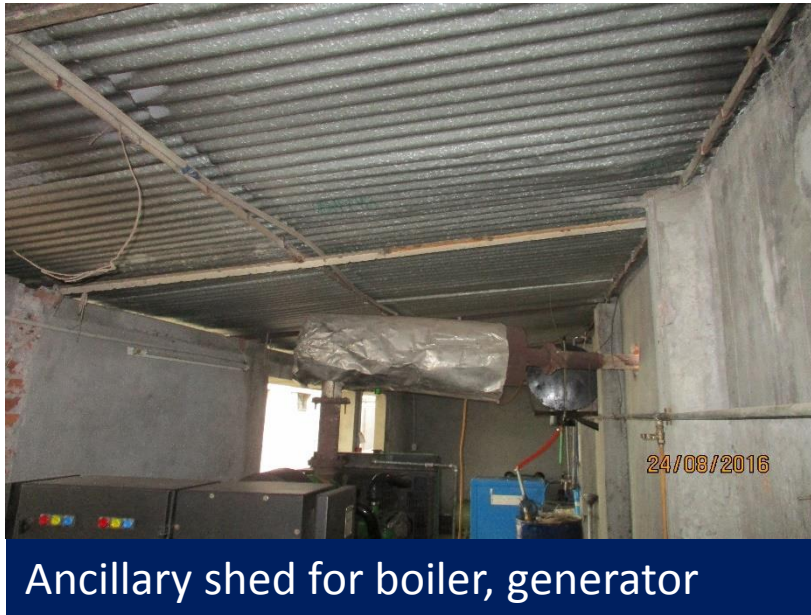


Observation



**Apparently non engineered steel sheds and
stair case roof.**

Observation



Ancillary shed for boiler, generator



Ancillary shed for waste shed



Stair case roof

Apparently non
engineered
Ancillary steel sheds
and stair case roof.

Observation



Deflection of steel member in roof of stair case.



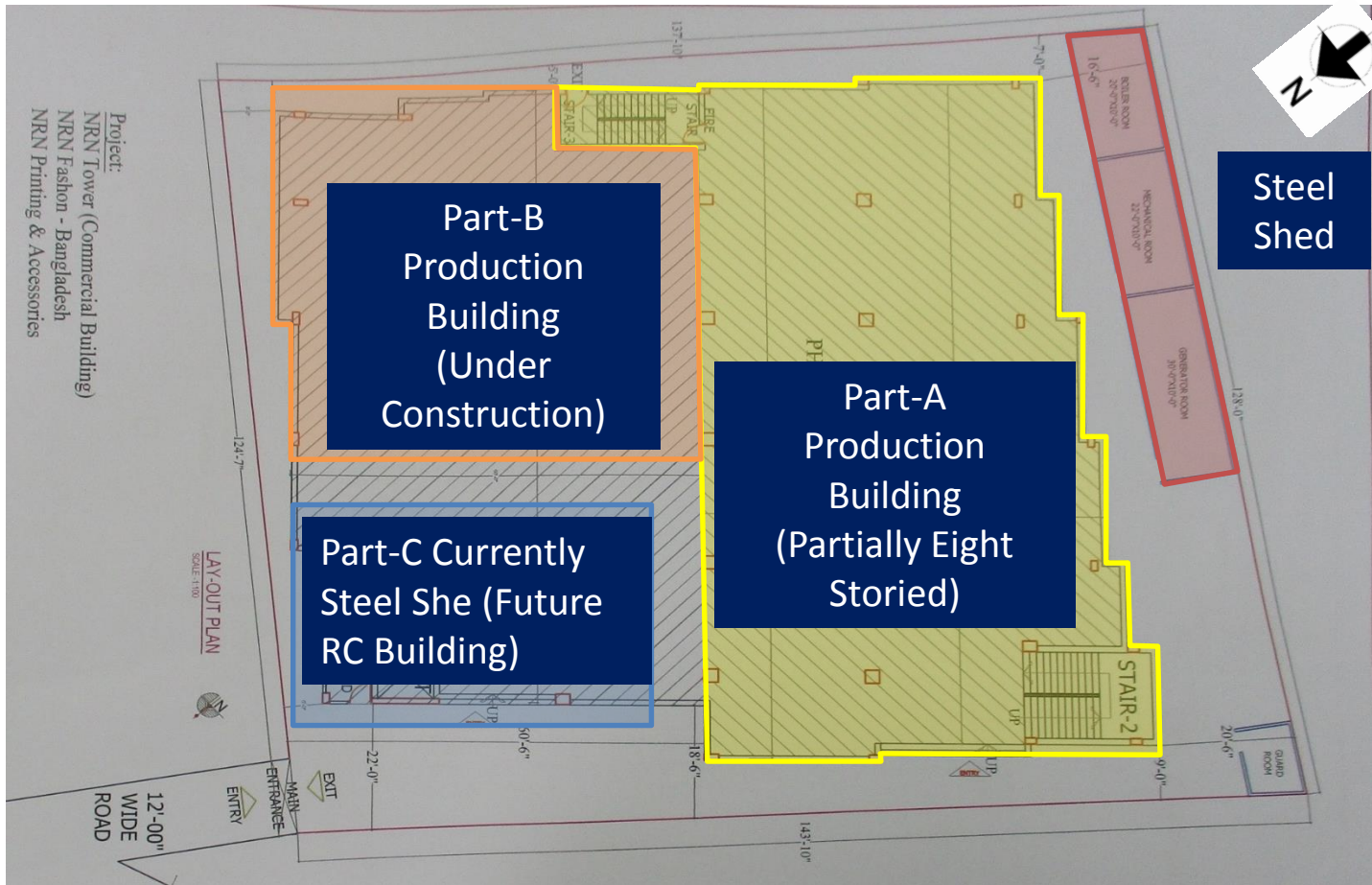
Poor connection between brick wall and steel truss.

Observation



Extension Cases in future

Observation



Factory will be vertically extended in Part-B portion. Horizontal and Vertical Extension will be executed in Part-C portion. All three parts will be act as a single building in future. For that A Detail Engineering Assessment requires to carry out according to BNBC provision.

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Priority Actions



Problems Observed

1. Worker safety during construction.
2. Exposed rebar at roof and floor levels.
3. Apparently non engineered steel sheds and stair case roof.
4. Extension cases in future.



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Worker safety during construction	Carry out construction works in safe manner.	Immediate - Now
2	Worker safety during construction	Define a safe area on the street during the construction process as per BNBC provision .	Immediate - Now
3	Exposed rebar at roof and floor levels	For both durability and serviceability, rust proof paint or any appropriate method is recommended.	6-weeks
4	Apparently non engineered steel sheds and stair case roof	Carry out Engineering Assessment for the sheds and steel roof to verify that it is stable under lateral loading as per BNBC.	6-weeks
5	Apparently non engineered steel sheds and stair case roof	Engage a Building Engineer to survey the structure and prepare a full set of “as-constructed” drawings for Structural and Architectural.	6-weeks
6	Apparently non engineered steel sheds and stair case roof	Carry out remedial works arise from Engineering Assessment if any.	6-months
7	Extension cases in future	Any extensions or modifications of the existing building needs to be carryout Detail Engineering Assessment by a structural Engineer and in full compliance with the BNBC provision.	6-months
8	Extension cases in future	Carry out remedial works from outcome of Detail Engineering Assessment if required.	6-months