

Park Bangladesh Company Ltd

Plot# 94-95, Sector# 03, Karnaphuli EPZ, North Patenga, Chattogram

(22.272419, 91.791835)

13 September 2023



Buildings Information

1. Building-1 (Main Building): The structure is a partially seven-storied (G+M+6) reinforced concrete (RC) building including a rooftop shed and a mezzanine floor.
2. Building-2 (Ancillary-1): The structure is a single-storied RC building
3. Building-3 (Ancillary-2): Single-storied structure with two distinct parts (RC boiler room at south and fire pump room at north)
4. Building-4 (Ancillary-3): The structure is a single-storied RC building.

Observations

Lack of lateral stability of the roof shed

Observation: Rooftop shed (Main Building)



Apparently inadequate compression strut and lack of lateral stability system. Also, connection details was not provided in the drawing. Building engineer to check the stability of roof structure against lateral loading and prepare necessary design documents.

Crack on the floor finish of roof



Crack on the rooftop screeding. Building engineer is required to repair the crack with suitable repair method.

Dampness and leakage of water

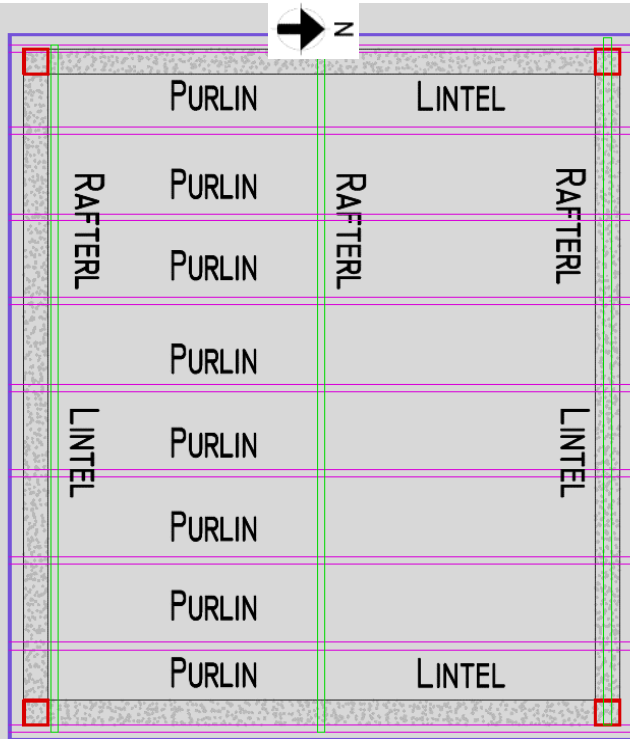
Observation: Building-1 (Main Building)



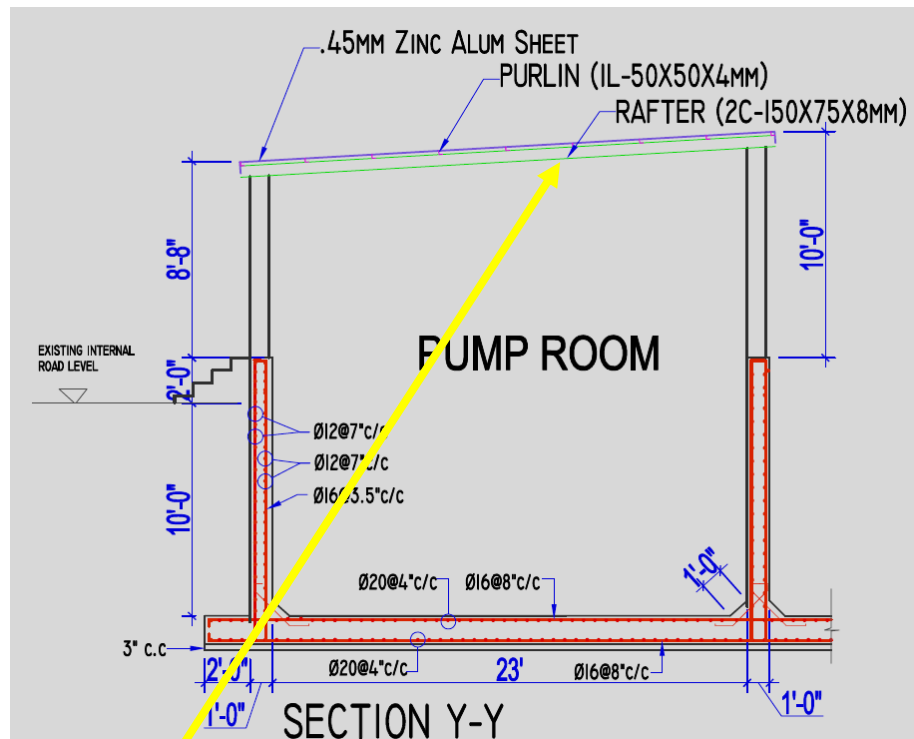
Dampness and leaked rainwater downpipe close to the columns were observed. Building engineer is required to repair the leaked downpipe and repair the dampness.

Discrepancies in provided drawing

Observations: Building-3 (Ancillary-2)



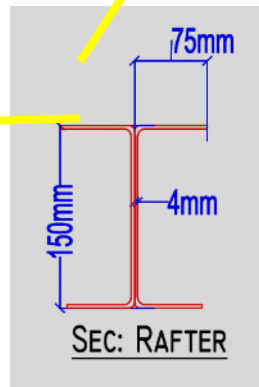
Rafter & Purlin layout plan



Sectional drawing of pump room



C-channel rafter at roof



Rafter section did not match with on site condition. In drawing 'I' section was shown, but 'C' channel was provided on site.

Crack on column surface

Observations: Building-3 (Ancillary-2)



Crack on column surface at column-wall joint

Crack was observed on column surface. Building engineer is required to check the extent of crack and prepare an investigation report with necessary remedial measure.

Apparently non-engineered roof

Observations: Building-3 (Ancillary-2)



Light weight roof supported on peripheral wall



Non-engineered connection

Roof of pump room is apparently non-engineered. Building engineer to check the stability of the lightweight roof structure against uplift forces.

Priority Actions

Problems Observed

Building-1 (Main Building) :

Item 1: Lack of lateral stability of the roof shed.

Item 2: Crack on the floor finish of roof.

Item 3: Dampness and leakage of water.

Building-3 (Ancillary-2):

Item 4: Discrepancies in provided drawing.

Item 5: Crack on column surface.

Item 6: Apparently non-engineered roof.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Lack of lateral stability of the roof shed. (Building-1 (Main Building))	Building engineer to check the stability of roof structure against lateral loading and prepare necessary design documents.	6-weeks
02	Lack of lateral stability of the roof shed. (Building-1 (Main Building))	Carry out remedial works where necessary.	6-months
03	Crack on the floor finish of roof. (Building-1 (Main Building))	Building engineer is required to repair the crack with suitable repair method.	6-months
04	Dampness and leakage of water. (Building-1 (Main Building))	Building engineer is required to repair the leaked downpipe and repair the dampness.	6-months
05	Discrepancies in provided drawing. (Building-3 (Ancillary-2))	Building Engineer to survey the structure and update the as-built drawings with connection details.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Crack on of column surface. (Building-3 (Ancillary-2))	Building engineer is required to check the extent of crack and prepare an investigation report with necessary remedial measure.	6-weeks
07	Crack on of column surface. (Building-3 (Ancillary-2))	Carry out remedial works.	6-months
08	Apparently non-engineered roof. (Building-3 (Ancillary-2))	Building engineer to check the stability of the lightweight roof structure against uplift forces.	6-weeks
09	Apparently non-engineered roof. (Building-3 (Ancillary-2))	Carry out remedial works if necessary.	6-months