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Identified Priority 3 Concerns

1st Priority 3 Concern



The steel columns of all shed buildings need to be provided with eaves tie beams in the longitudinal direction to help the structural system stability work properly.



2nd Priority 3 Concern



The steel structures have not been protected with fire proofing.

The fire proofing needs to be applied with minimum of 1or 2 hours of protection based on local codes.



3rd Priority 3 Concern



Single Storey
Shed Washing
extension building



The steel trusses need to be longitudinally braced to combine the trusses into one system and provide the stability needed to resist lateral loads properly.

The factory's Structural Engineer needs to review the design with wind loads applied to check the stability of the trusses under lateral and uplift wind loads.

4th Priority 3 Concern



Security building



Single Story Shed
Washing extension
building

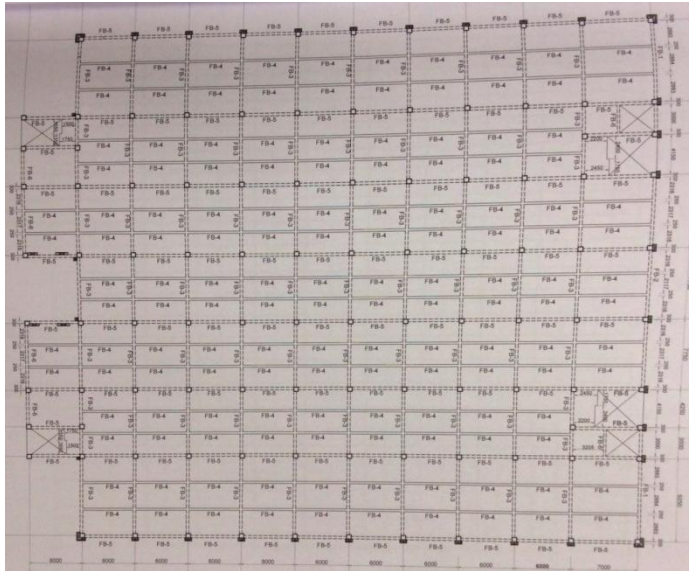


The missing As-built drawings of the two extra Security and Temporary Washing buildings need to be produced.



Overall Stability System

Main 5 Storey building



Typical framing floor plan



R.C Beam and column frame with a 2-way solid slab.
Stability provided by moment frame system only.

Slab Thickness 113mm
Column Size 508x508mm (typ.)
Beam Size 300x600mm (typ.)

Grid 6.0m x 7.75m.

This type of structural framing is appropriate for buildings lower than 10 storeys in height with the large plan areas.

BUET have apparently already considered the stability of this building, and rated it satisfactory under lateral wind and seismic loads.

Priority Actions

Problems Observed Summary

- ITEM 1: (1st Priority 3) The steel columns of all shed buildings need to be provided with eaves tie beams in the longitudinal direction to ensure the structural stability.**
- ITEM 2: (2nd Priority 3) The steel structures have not been protected with any form of fire proofing.**
- ITEM 3: (3rd Priority 3) The steel trusses of the Washing Extension building need to be braced to allow all of the trusses to act as one system to provide the stability of the building and to resist lateral loads.**
- ITEM 4: (4th Priority 3) The missing As-built drawings of two extra Security and Temporary Washing buildings need to be produced.**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 3 - The steel columns of all shed buildings need to be provided with eaves tie beams in the longitudinal direction to ensure the structural stability.	Provide the tie beams along the eaves at all column joints.	6-months
2	2nd Priority 3 - The steel structures have not been protected with any form of fire proofing.	Fire proof all steel structures in accordance with all appropriate BNBCs.	6-months
3	3rd Priority 3 - The steel trusses of the Washing Extension building need to be braced to allow all of the trusses to act as one system to provide the stability of the building and to resist lateral loads.	The roof bracing system needs to be improved / provided in longitudinal direction.	6-months
4	4th Priority 3 - The missing As-built drawings of two extra Security and Temporary Washing buildings need to be produced.	The factory's Structural Engineer is to survey the actual conditions and produce the drawings as early as possible.	6-months