Young 4 Ever Ltd. (9366)

Plot # B-89-90, BSCIC I/A, Fatullah, Narayangonj.

(+23.625534N, 90.479324E)

06.AUGUST.2014

ACCORD on Fire and Building Safety in Bangladesh

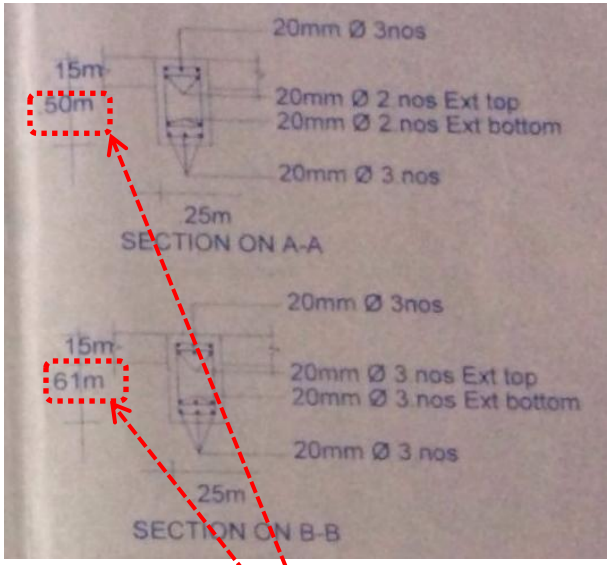
WSP

Identified Priority 3 Concerns

ACCORD
on Fire and Building Safety in Bangladesh

WSP

1st Priority 3 Concern



These beam sections on the drawings do not match the actual site conditions.

The as-built drawings need to be re-produced reflecting the real site conditions.

The actual depth of the beam, below slab level, is just 400mm. The design should also be verified by the factory's Structural Engineer.

ACCORD on Fire and Building Safety in Bangladesh

WSP

2nd Priority 3 Concern

The roof needs an applied water proofing layer.

ACCORD on Fire and Building Safety in Bangladesh

WSP

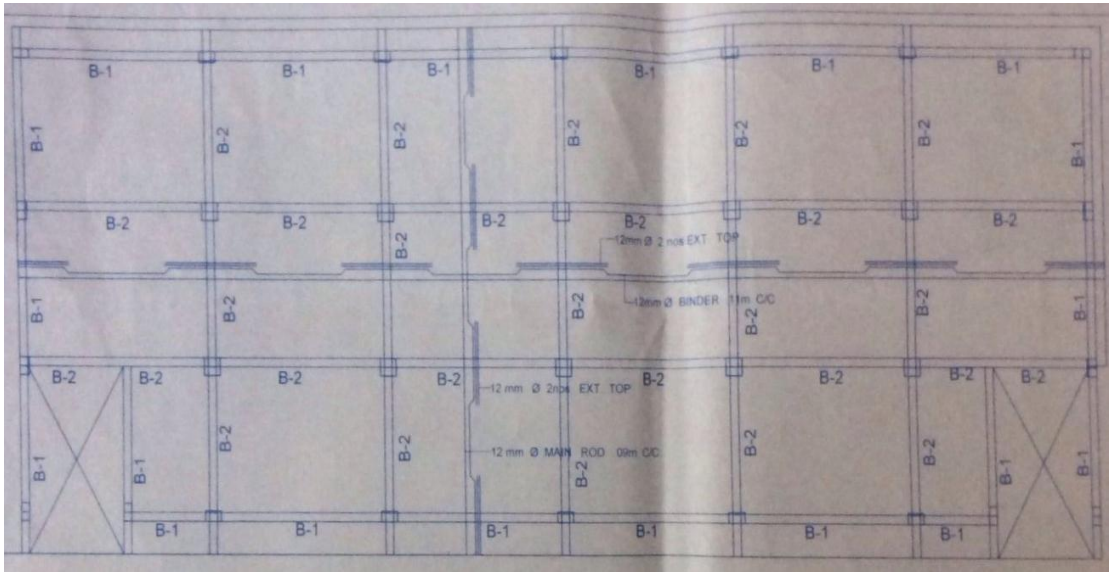
3rd Priority 3 Concern

The starter bars of the columns at the 5th floor roof level need to be painted to prevent corrosion.

ACCORD on Fire and Building Safety in Bangladesh

WSP

4th Priority 3 Concern



We require that these items be investigated as part of an Engineering Assessment

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

Slab Thickness 150mm
Column Size 450x450mm (typ.)
Beam Size 250x650mm(typ.)

Grid 5.72m x 4.35m.

This type of structural framing may be appropriate for the buildings lower than 10 storeys with large plan areas. However, it is required that an Engineer reviews and checks the load cases for the horizontal deflection and storey drift under wind and seismic load.

ACCORD on Fire and Building Safety in Bangladesh

WSP

5th Priority 3 Concern

The shed on the 5th floor is only a temporary steel structure with simple connections.

The steel structure very small and doesn't have any bracing.

ACCORD on Fire and Building Safety in Bangladesh

WSP

Priority Actions

ACCORD on Fire and Building Safety in Bangladesh

WSP

Problems Observed Summary

ITEM 1: (1st Priority 3) The as-built drawings need to be re-produced more accurately representing the actual existing construction.

ITEM 2: (2nd Priority 3) The roof needs a water proofing layer.

ITEM 3: (3rd Priority 3) The starter bars of the columns on the 5th floor level roof need to be painted to prevent the corrosion.

ITEM 4: (4th Priority 3) The factory's Structural Engineer needs to check the building's stability system under lateral loads.

ITEM 5: (5th Priority 3) The shed on the 5th floor is a temporary steel structure and needs either to be removed or significantly improved.

ACCORD on Fire and Building Safety in Bangladesh

WSP

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 3 - The as-built drawings need to be re-produced more accurately representing the actual existing construction.	The factory's Engineer should survey the actual conditions and reproduce the as-built drawings as early as possible.	6-months
2	2nd Priority 3 - The roof needs a water proofing layer.	Provide a proper waterproof layer on the current roof level.	6-months
3	3rd Priority 3 - The starter bars of the columns on the 5th floor level roof need to be painted to prevent the corrosion.	Provide a proper painted protection to the bars to prevent steel corrosion.	6-months
4	4th Priority 3 - The factory's Structural Engineer needs to check the building's stability system under lateral loads.	The factory's Engineer to carry out an Engineering Assessment of, and check the current structural system, under lateral wind and seismic loads.	6-weeks
5	4th Priority 3 - The factory's Structural Engineer needs to check the building's stability system under lateral loads.	Based on the analysis results carry out any remedial works deemed necessary.	6-months
6	5th Priority 3 - The shed on the 5th floor is a temporary steel structure and needs either to be removed or significantly improved.	Either fully remove the shed or strengthen in accordance with a Structural Engineer's advice.	6-months