

Tamanna Tex Ltd. (25242)

Plot No A 34, BSCIC Kanchpur, Sonargon, Narayanganj
(23.698774, 90.527735)
2nd February 2021



Buildings Information

1. Main Production Shed (single storied)
2. Extension Building (G) (single storied)

Observations

Irregularity in load transfer system

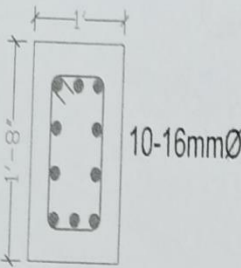
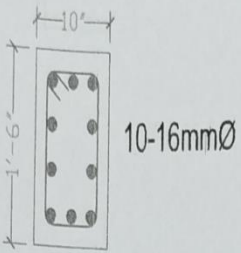
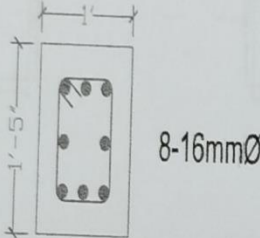
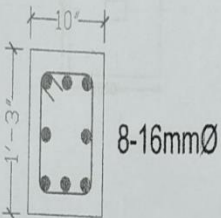
Observation: Main Production Shed



Support is not placed at node point in some locations

Support is not placed at node point in some locations which indicates the irregularity in load transfer system from truss to column. Factory engineer is required to check the adequacy of the load transfer system as a part of Engineering Assessment (EA) and implement any remediation if required.

Discrepancies in as built drawing with on site condition

Column Designation	Below PL (Clear Cover 3")	Above PL (Clear Cover 1.5")
C1		
STIRRUP	10mmØ @ 7" c/c	10mmØ @ 5"~8"~5" c/c
C2		
STIRRUP	10mmØ @ 7" c/c	10mmØ @ 5"~8"~5" c/c

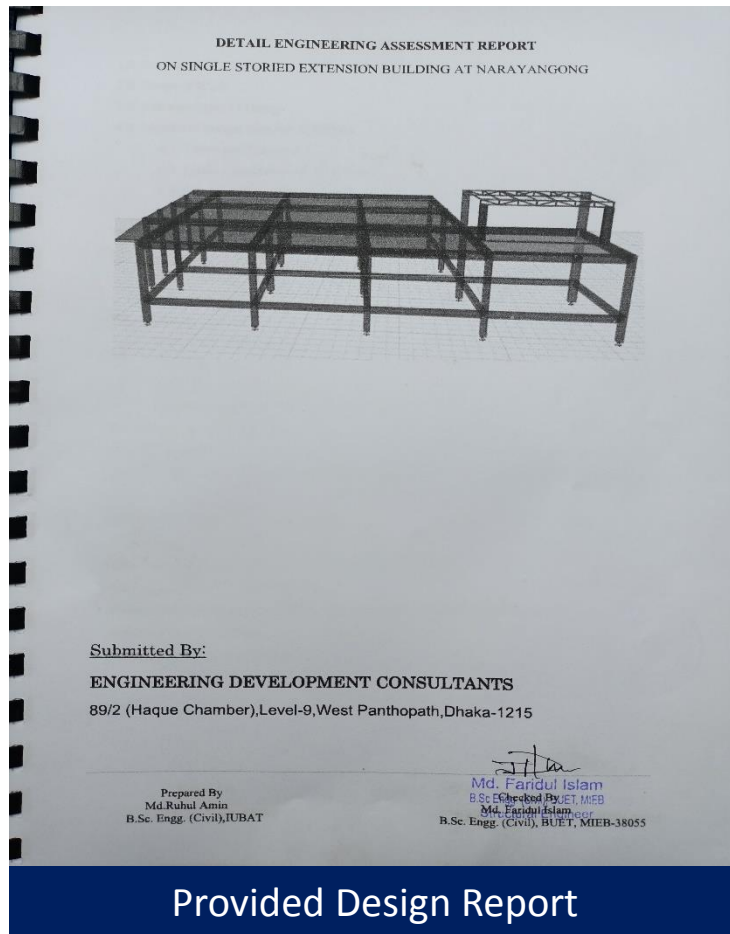
Column dimension shown in provided drawing



Column dimension measured
250mmX375mm

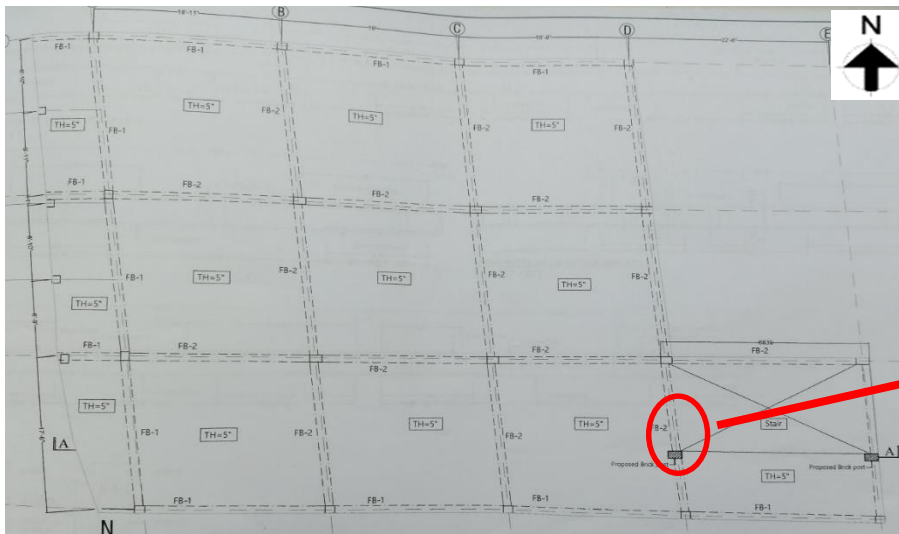
Dimension of column C-1 at grid E-2 was found 250mmX375mm instead of 250mmX450mm. Factory engineer is required to update the as-built drawing as per onsite condition.

Incomplete Design Report



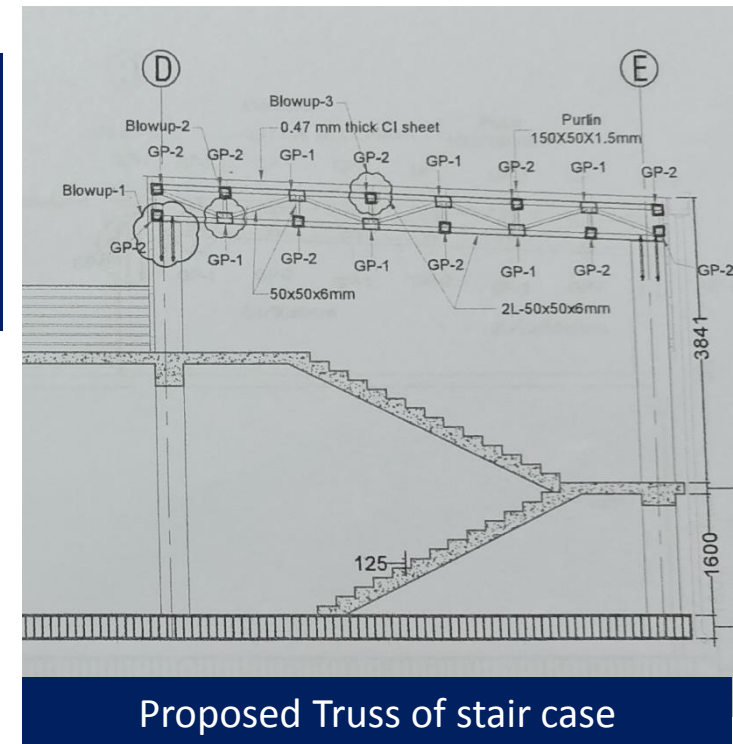
A Design Report was provided for the Extension Building at the time of inspection which is prepared based on software analysis. However, no software analysis (FEA) model was provided to review the Design report. Factory is required to submit the full set of Design Report with software-based analysis model for review.

Recommendation in proposed drawing not implemented



Brick post was missing at this location

A brick post was proposed in provided drawing which was not installed. Also, the roof truss of stair core was not replaced as per proposed drawings. Factory engineer is required to check the proposed scheme and implement if required.



Proposed Truss of stair case



Existing truss at stair case

Water ponding on roof slab



Water ponding on roof slab

Water ponding was found on roof slab. Any cracks or damage on the roof surface will allow water to seep into the concrete slab beneath the finishes and cause long term soaking of the slab and corrosion of the rebar. Factory is required to provide necessary slope and improve drainage system to prevent water ponding.

Exposed reinforcement left at roof level and staircase



Exposed reinforcement left at roof level & staircase.

Exposed reinforcement is left at roof level & staircase. Factory is required to provide rust proof paint on exposed reinforcement to protect from corrosion.

Falling hazard at roof level



No parapet/railing was found at roof level

No parapet/railing was found at roof level. Factory is required to provide parapet/railing at roof level to avoid possible falling hazard.

Severe dampness at façade



Severed dampness was found in façade at west side

Severed dampness was found at façade at west side due to lack of proper drainage system.

Factory is required to provide proper drainage system on roof slab and repair the damp areas.

Priority Actions

Problems Observed

Main Production Shed:

Item 01: Irregularity in load transfer system.

Extension Building:

Item 02: Discrepancies in as built drawing with as-built condition.

Item 03: Incomplete Design Report.

Item 04: Recommendation in proposed drawing not implemented.

Item 05: Water ponding on roof slab.

Item 06: Exposed reinforcement left at roof level and staircase.

Item 07: Falling hazard at roof level.

Item 08: Severe dampness at façade.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Irregularity in load transfer system (Main Production Shed)	Factory engineer is required to check the load transfer and support system of existing truss.	6-weeks
02	Irregularity in load transfer system (Main Production Shed)	Engineering Assessment (EA) to be prepared for reviewing design, loads and capacity of structural members.	6-weeks
03	Irregularity in load transfer system (Main Production Shed)	Complete implementation of any remedial works deemed necessary by the Engineering Assessment (EA).	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
04	Discrepancy in as-built drawing with on site condition (Extension Building)	Prepare “as constructed” drawings which reflect the actual site dimensions and complete structural information.	6-weeks
05	Incomplete Design Report (Extension Building)	Factory is required to submit the Design Report with analysis model for review.	6-weeks
06	Incomplete Design Report (Extension Building)	Implement the recommendation deemed necessary.	6-months
07	Recommendation in proposed drawing not implemented (Extension Building)	Factory engineer is required to review the proposed scheme.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
08	Recommendation in proposed drawing not implemented (Extension Building)	Implement the proposed remediation work if required.	6-months
09	Water ponding on roof slab (Extension Building)	Factory is required to provide necessary slope and improve drainage system to prevent water ponding.	6-weeks
10	Corroded and exposed rebar at roof (Extension Building)	Apply rust proof paint to protect from corrosion	6-weeks
11	Falling hazard at roof level (Extension Building)	Provide parapet/railing at roof level to avoid possible falling hazard.	Immediate-Now

Item No.	Observation	Recommended Action Plan	Recommended Timeline
12	Severe dampness at façade (Extension Building)	Factory is required to provide proper drainage system on roof slab and repair the damp areas.	6-weeks