

# JERICO IMEX LTD.

Montree Bari Road, South Shalna, Shalna Bazar, Gazipur  
(24.031292, 90.390023)

20<sup>th</sup> September 2016



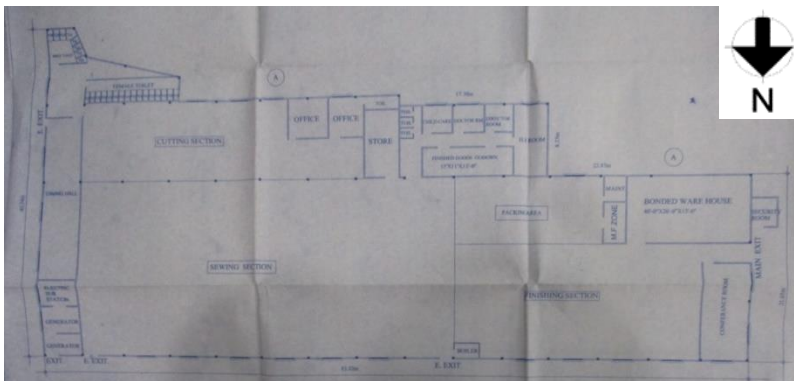


# Observations

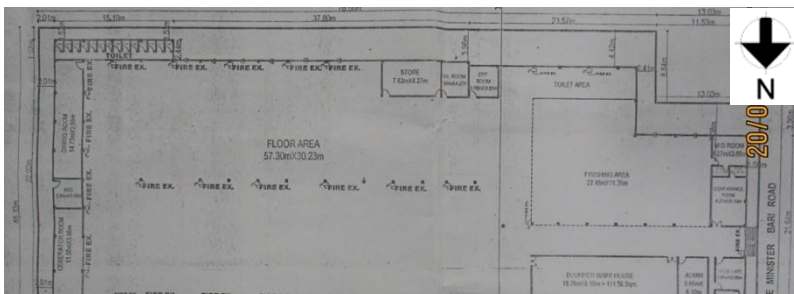


# **Insufficient documents and discrepancies between drawings & site observations**

**Observation : Factory Shed**



Layout plan from permit drawing (LGED, Gazipur)



Layout plan from permit drawing (City Corporation, Gazipur)



Layout plan edited by Accord Engineer

Provided permit drawings don't match with as built condition. Column layout and nos. of grids are not matched with drawings.



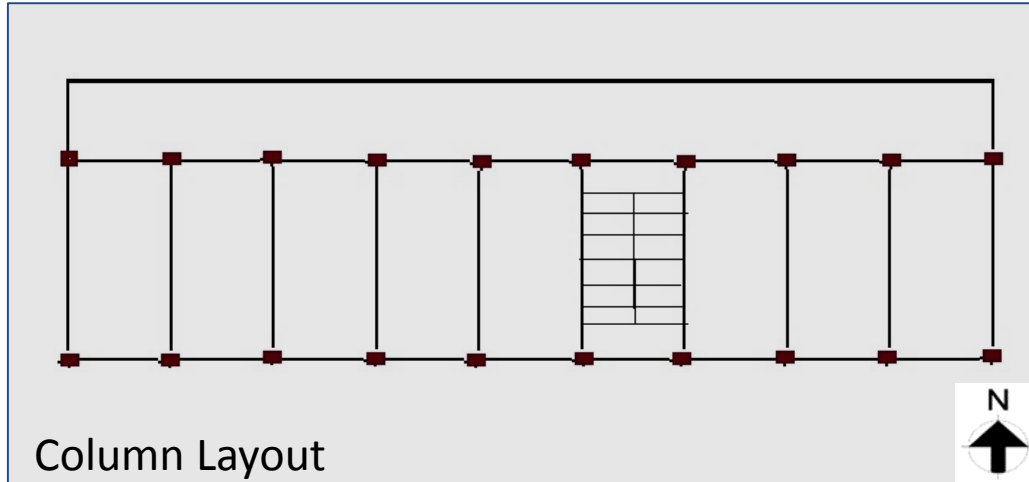
Bays at East



Red marked columns are not shown in drawing.

## Observation : Factory Shed





Structural and architectural drawings were not found for RCC part of the factory. Practically column sizes are measured 12"X10" and 3x2 nos. of rebar were observed by ferro scanner. At roof 12mm rebar was exposed at middle in few column.

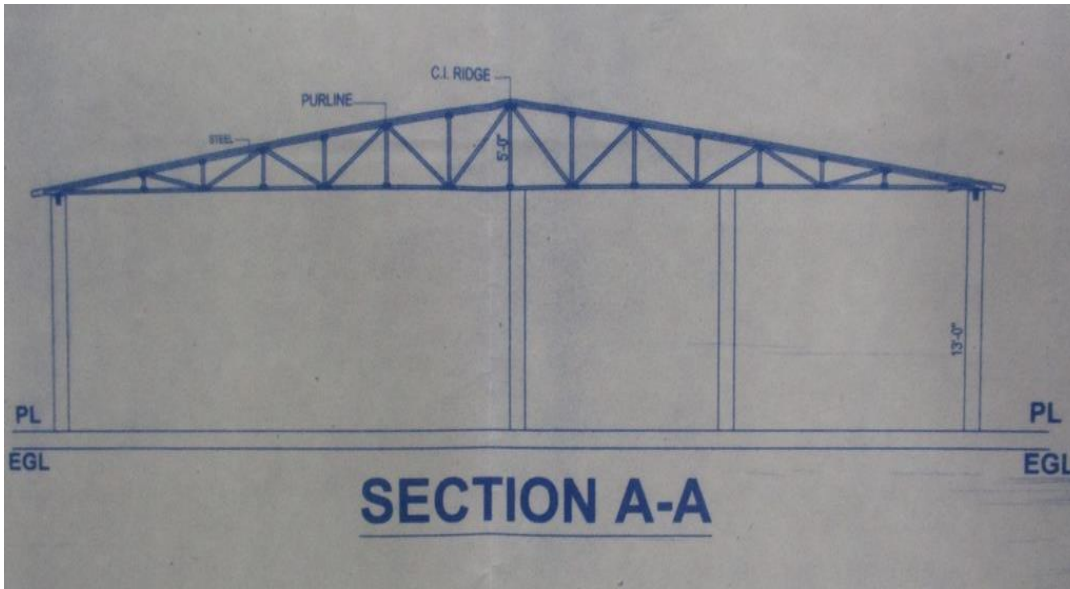




## Column and steel truss layout plan



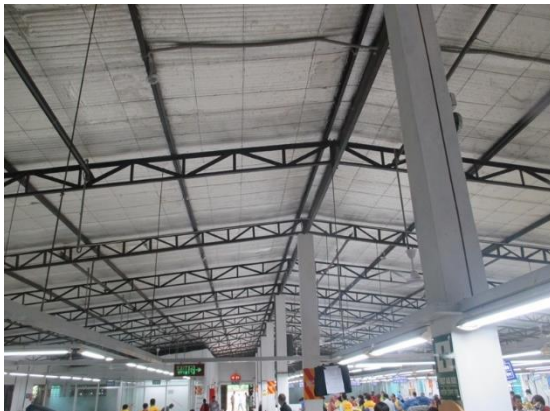




Existing truss sections are not matched with drawings.



Truss section at East



Truss section at West



Truss section at East



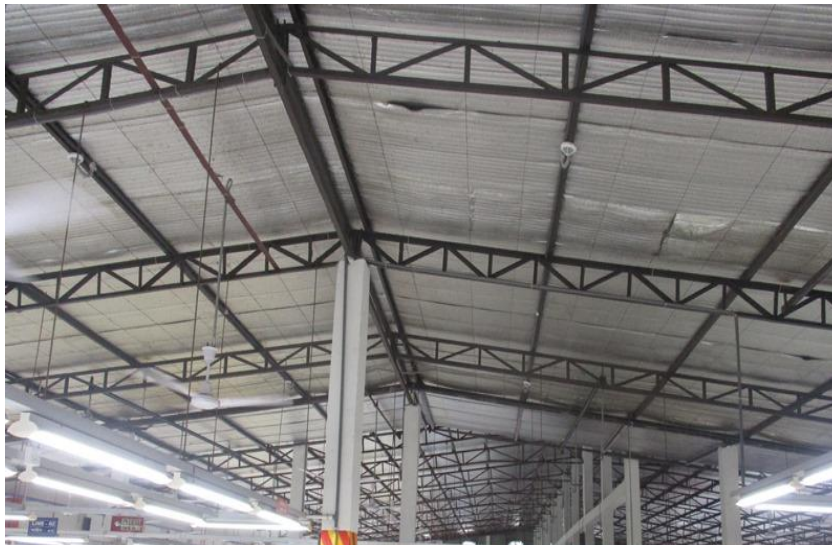
# Lack of lateral stability observed

**Observation : Factory Shed**





Truss connect with RC Column



Roof at West

No roof bracings were observed for both west and east part of the shed.



Roof at East



# Non-Engineered Lightweight steel structures

**Observation : Toilet block and Stair roof**



Light weight canopy poorly connected with lintel and boundary wall by steel angle

Non-Engineered  
Lightweight  
steel structures  
found at toilet  
block, stair roof  
and canopy .



Stair roof



Toilet roof at East

**Observation : Toilet block and stair roof**



**Falling hazards on the roof & water ponding and protect reinforcement & steel member from corrosion**

**Observation : Utility Building & Shed**





No edge protection on roof.



Water ponding on roof



Unprotected column rebar



Corrosion in steel member

## Observation : Utility Building & Shed



# Problems Observed

## Factory Shed & Utility Building

- Item 1: Insufficient documents and discrepancies between drawings & site observations.
- Item 2: Lack of lateral stability observed.
- Item 3: Non-Engineered Lightweight steel structures.
- Item 4: Falling hazards on the roof & water ponding and protect reinforcement & steel member from corrosion.

| Item No. | Observation                                                                                         | Recommended Action Plan                                                                                                    | Recommended Timeline |
|----------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1        | Insufficient documents and discrepancies between drawings & site observations.                      | Building Engineer to survey as constructed building and prepare a set of as-built drawings.                                | 6-weeks              |
| 2        | Lack of lateral stability observed                                                                  | Carry out an Engineering Assessment on the buildings to verify that they are stable under lateral loading                  | 6-weeks              |
| 3        | Lack of lateral stability observed                                                                  | Carry out all recommendations of the Engineering Assessment                                                                | 6-months             |
| 4        | Non-Engineered Lightweight steel structures                                                         | Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading. | 6-weeks              |
| 5        | Non-Engineered Lightweight steel structures                                                         | Remedial works to be carried out if required.                                                                              | 6-months             |
| 6        | Falling hazards on the roof & water ponding and protect reinforcement & steel member from corrosion | Provide immediate edge protection to the roof                                                                              | Immediate - Now      |
| 7        | Falling hazards on the roof & water ponding and protect reinforcement & steel member from corrosion | Factory engineer to identify the cause of water ponding & suggest appropriate remedial action.                             | 6-weeks              |
| 8        | Falling hazards on the roof & water ponding and protect reinforcement & steel member from corrosion | All exposed reinforcement is to be protected from corrosion which may cause degradation of the concrete.                   | 6-weeks              |