



# Consumer Knitex Limited. (Unit-2)- New Buildings

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(24.552171N, 90.400753E)

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# Observation



# Paucity of details in As-Built drawings



Additional short column in gable frame was not shown in drawing



Additional joints in rafter were not shown in drawing



Additional columns for cargo lift and toilet zone were not shown in column layout. Also thickness of flange was measured 6mm but in column section it shows 8mm.

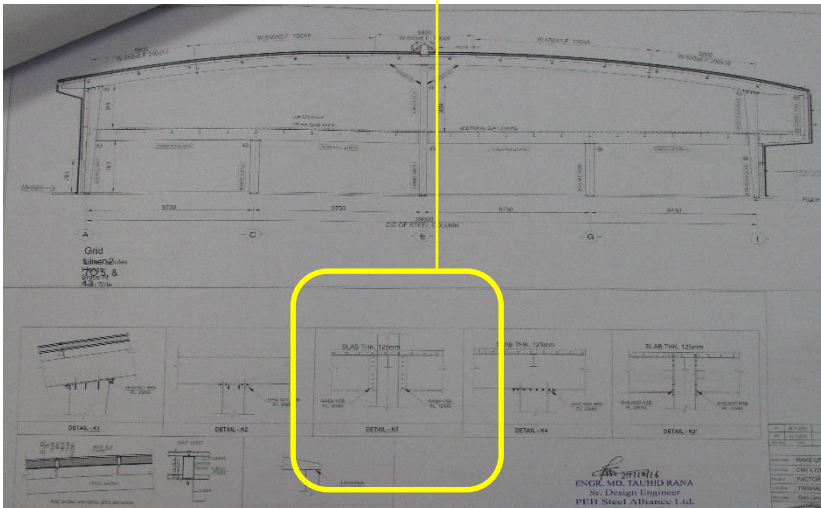




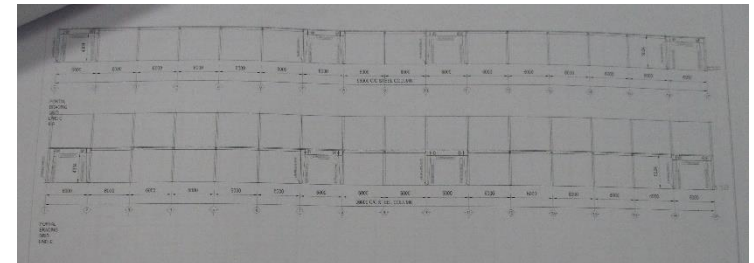
Connection details were not matched with provided drawings



Cross bracing was observed instead of portal frame bracing

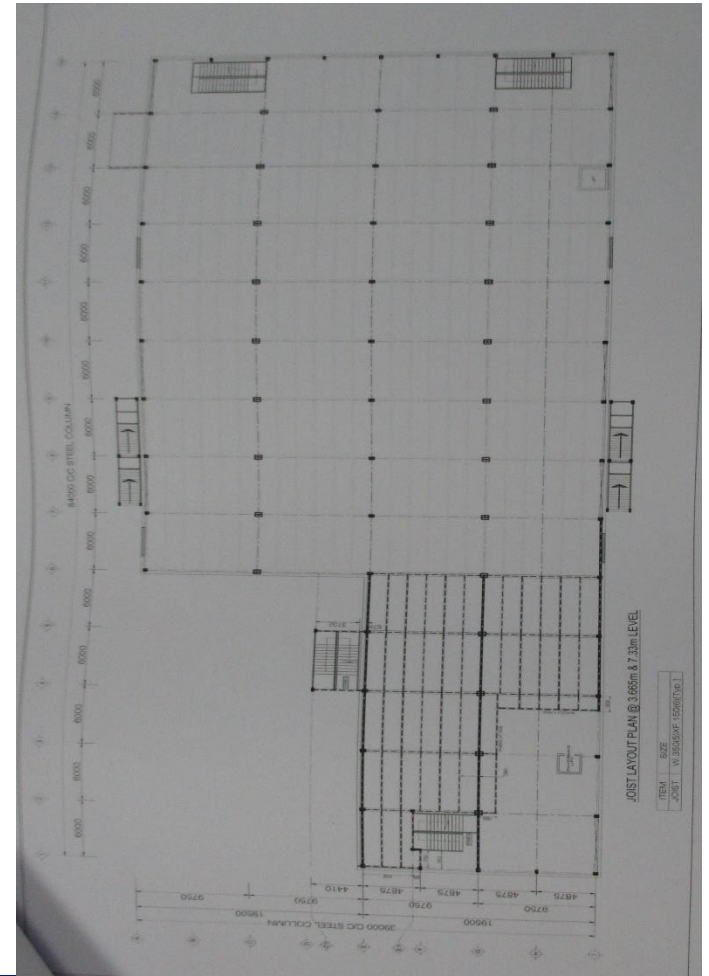


Section & connection details



Portal bracing layout

Also architectural drawings were not available for building -1.



Number of bays were not matched with provided drawing. In provided drawings 14 number of bays were shown but during inspection 13 number of bays are found.



## **Lack of documents for connection bridge & Pump house**



During inspection no drawings details were available for the connection bridge & Pump house.



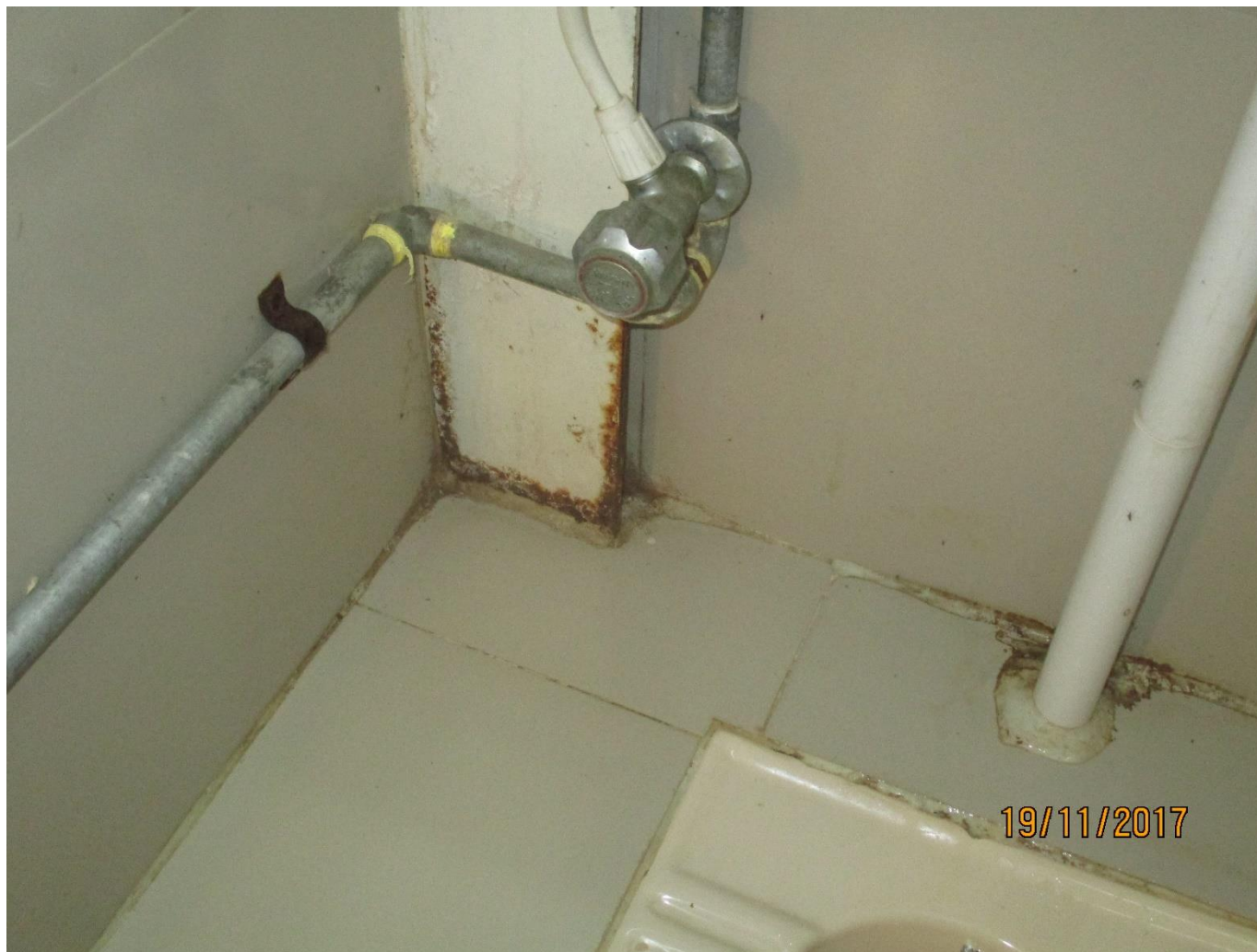
Connection Bridge



Pump house



# Corrosion in steel column



Corrosion found at toilet zone column of building 1.



**Produce load plan in standard format**

1  
1 **Observation : Building 5, 9, 10 & 12**



Building 5, 9, 10 & 12 is used for store and ware house at 1<sup>st</sup> floor. No standard load plan wasn't produced for those building. During inspection, 84 psf live load was found in some areas. Factory engineer is required to prepared load plan considering column and slab capacity. And also mentioned the maximum allowable limit on the load plan.



# Gap between column & rafter connection



Gap found in between column and rafter at toilet zone



# Priority Action



# Problems Observed

## **All buildings :**

Item 01: Paucity of details in As-Built drawings.

Item 02: Lack of documents for connection bridge & pump house.

## **Building 1:**

Item 03: Corrosion in steel column.

## **Building 5, 9, 10 & 12:**

Item 04: Produce load plan in standard format.

## **Building 9 & 10 :**

Item 05: Gap between column & rafter connection.



| Item No. | Observation                                                             | Recommended Action Plan                                                                                                                         | Recommended Timeline |
|----------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1        | All buildings -<br>Paucity of details in As-Built drawings              | Building Engineer to survey as-built structure and prepare accurate as-built survey information with connection details for the building.       | 6-weeks              |
| 2        | All buildings -<br>Lack of documents for connection bridge & pump house | Prepare up-to-date as-built documentation for all connection bridge & pump house.                                                               | 6-weeks              |
| 3        | Building-1 -<br>Corrosion in steel column                               | Apply suitable method to protect the steel members from corrosion.                                                                              | 6-weeks              |
| 4        | Building-5, 9, 10 & 12 -<br>Produce load plan in standard format        | Produce and actively manage a loading plan for all floor plates within the factory, giving consideration to floor capacity and column capacity. | 6-weeks              |
| 5        | Building- 9 & 10 -<br>Gap between column & rafter connection            | Factory Engineer to check the connections and provide shim plate where required.                                                                | 6-weeks              |