

# SQUARE FASHIONS LTD (Extension)

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9 January 2023



# Building Information:

**Building-15 (6-storied Production Building):** 6-storied (G+5) building.

**Building-16 (6-storied Store Building):** 6-storied (G+5) building.

**Building-17 (Utility Building):** Single storied (B+G) building

**Storage Shed:** Single storied shed.

**Guard Room:** Single storied building.

# Observations

**Column/beam susceptible to vehicle impact**

**Observation: Building-15**



Possibility of vehicle impact in the column & beam of Building-15

The factory is required to take proper measure to protect the building columns and beams from the possible vehicle impact.

# Column damage due to trolley impact

**Observation: Building-16**



Column damage due to trolley impact

Building engineer is required to repair the damage surface of the column and provide adequate protection system to resist trolley impact.

# Lack of lateral load resisting system

**Observation: Storage Shed**



Lateral load resisting system (bracing, compression strut) is absent



Apparently inadequate connections (minimum size of welding)

The building engineer is required to carry out Engineering Assessment (EA) to check the lateral stability of the structure and prepare a set of design documents including structural drawings and design report. Submit the documents to RSC for review.

# Tests carried out



Stone aggregate in column of Building-15



Brick aggregate in column of Building-16



Stone aggregate in column of Building-17



Rebar checked by ferro scanner

# Problems Observed

## **Building-15:**

Item 1: Column/beam susceptible to vehicle impact.

## **Building-16:**

Item 2: Column damage due to trolley impact.

## **Storage Shed:**

Item 3: Lack of lateral load resisting system.

# Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Column/beam susceptible to vehicle impact. (Building-15)	<ul style="list-style-type: none"> <li>The factory is required to take proper measure to protect the building columns and beams from the possible vehicle impact.</li> </ul>	(6-weeks)
02	Column damage due to trolley impact (Building-16)	<ul style="list-style-type: none"> <li>Building engineer is required to repair the damage surface of the column and provide adequate protection system to resist trolley impact.</li> </ul>	(6-weeks)
03	Lack of lateral load resisting system. (Storage Shed)	<ul style="list-style-type: none"> <li>The building engineer is required to carry out Engineering Assessment (EA) to check the lateral stability of the structure and prepare a set of design documents including structural drawings and design report. Submit the documents to RSC for review.</li> </ul>	(6-weeks)
04	Lack of lateral load resisting system. (Storage Shed)	Carry out remedial action where required.	(6-months)