Executive Greentex Limited (Extension)

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(24.237722, 90.399901)

20 February 2024

RSC RMG SUSTAINABILITY COUNCIL

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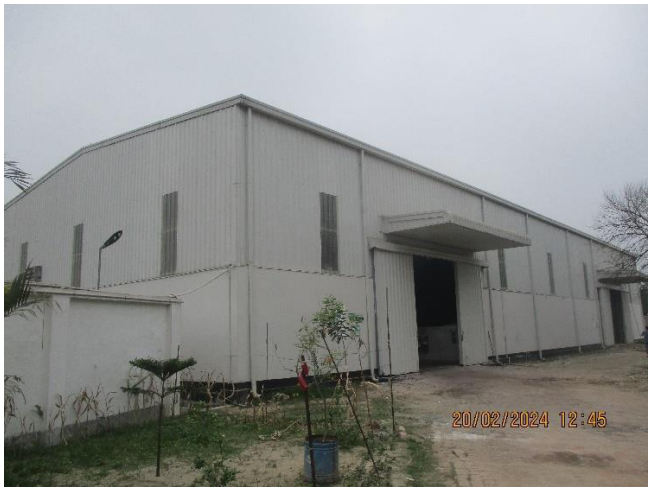
1. Building Information

Chemical shed: It is a single-storied steel shed.

2. Observations

Observation-1: Lack of information in design documents. (Chemical shed)



JOB NO: BBS-22(15)-1059
CLIENT NAME: EXECUTIVE GREENTEX LTD.
PROJECT NAME: CHEMICAL SHED
LOCATION: BARIDHARA R/A, BLOCK-K, DHAKA.

Load Consideration and Design Report

SUBMITTED BY
BANGLADESH BUILDING SYSTEMS LTD. (BBSL)

1.6 Material Specifications

Material Specifications

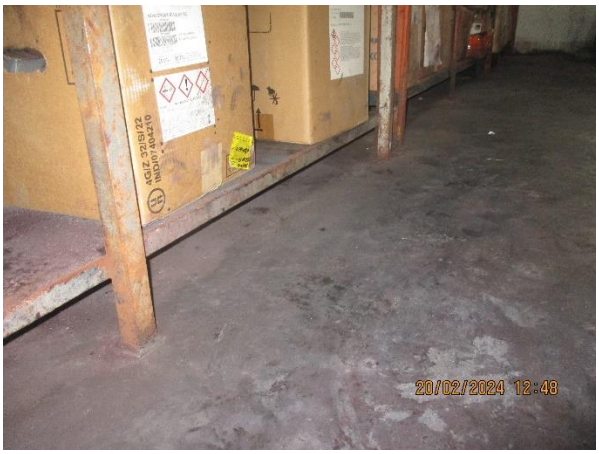
Below are BBS standard material specifications that will be used in the project. BBS reserves the right to make material substitutions and changes in specifications as and when deemed necessary.

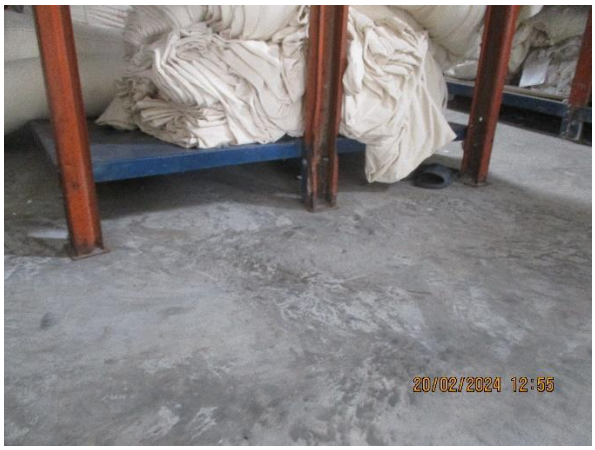
No.	Components	Specifications	Strength
1	**Built-up**	ASTM A572M /SS 400/Q345B Grade 345 Type 1 ASTM A370	F_y = 34.5 kN/cm^2
	Built-up(Crane beam and Angle)	ASTM A572M /SS 400/Q345B Grade 345 Type 1 ASTM A370	F_y = 24.84 kN/cm^2
2	**Cold Formed**	ASTM A607/SS 400 Grade 50 JIS - G 3131 SPHC JIS - G 3132 SPHC	F_y = 34.5 kN/cm^2 F_y = 34.5 kN/cm^2

Description: A design report was available for the chemical shed. The adequacy of structural members (foundation) and steel members connection was not incorporated in the design report. Also, 34.5 kN/cm^2 (50 ksi) steel plate strength was mentioned in the design report, but material test reports were not available to verify the strength.

Building engineer is required to confirm the material strength and incorporate an adequacy check of all structural members, and steel members connections in the design report and submit it to the RSC for review.

Observation-2: Non-structural elements found unbraced/not anchored. (Chemical shed)





Description: Non-structural elements suspended from, attached to, or resting atop the structure shall be adequately anchored and braced to resist earthquake forces. Factory is required to brace/anchor all non-structural elements (storage racks).

3. Action Plan

Observation	Action Plan	Timeline
Lack of information in design documents. (Chemical shed)	Verify in situ material strength (MS plate tensile strength)	within 6 weeks
	Building engineer is required to incorporate an adequacy check of all structural members, and steel members connections in the design report and submit to the RSC for review.	within 6 weeks
	Carry out the suggested remedial works.	within 6 months
Non-structural elements were found unbraced/not anchored. (Chemical shed)	Factory is required to brace/anchor all non-structural elements.	within 6 weeks