

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Crystal Vestiti Ltd

RSC ID: 24672

ADDRESS: 74/1 Vogra, National University, Joydebpur, Gazipur.

Other Factories: None



Inspected By: Mohammad Atik Al Zaman, Md. Anisuzzaman & Md. Musa

Date: 31st July 2023

Fire Safety Inspection Report

Factory Name: Crystal Vestiti Ltd.

Introduction:

Crystal Vestiti Ltd. was surveyed for fire safety on 31st July 2023 by The RSC Inspection Team. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections. Table 1 summarizes the major fire safety issues identified during the inspection.

Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

Findings & Recommendations :

Crystal Vestiti Ltd

Table-1 summarizes the fire safety non-complaint issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design/installation constraints shall be submitted to the RSC for approval.


Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Areas used for combustible storage at 1st floor open to the factory are not separated by fire rated construction.	Provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m ² (250 ft ²). - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m ² (1,000 ft ²). Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft).	Within 3 months



2	Stair case separation	The exit stairs enclosures are not separated from work areas on each floor by fire-rated construction.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories.	Within 3 months
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3	Fire Rated Construction	Elevator shafts are directly open into the 2nd floor	Elevator landing door shall be of minimum 1.5-hr listed/3rd party certified fire rated materials as per RSC standard 4.6 and shall be open in the floor otherwise close the area of the shaft with a 2-hr fire-rated construction barrier.	Within 3 months
				
4	Egress	Building did not have occupant load sign, stair and floor designation sign at required locations.	Provide occupant load sign, stair and floor designation sign at required locations.	Within 1 months
5	Egress Lighting	Exit signage not provided at store	Provide exit signage where missing and required. Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m ² may also be used.	Within 1 months

6	Egress Lighting	Inspection, testing and maintenance for the emergency lighting & exit signage system was not in accordance with RSC standard.	Inspect, test and maintain the emergency lighting & exit signage system in accordance with RSC standards. Keep written records on-site.	Within 1 months
7	Fire Suppression System (SUPS)	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records on-site, in accordance with NFPA 10.	Within 1 months
8	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.	Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 and RSC standards.	Design Review within 2 months and modification within 3 months (If require).



9	Fire Alarm & Detection System (FADS)	Inspection, testing and maintenance for the fire alarm & detection system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72.	Within 1 month
10	Human element program	Factory did not have Smoking signs	Smoking shall be prohibited in factory premises as per RSC standard 13.5.1. Signs shall be posted in Bengali and English at all building entrances. If factory owner creates a designated smoking area outside of buildings then designated areas information shall be posted on the signs required in RSC standards 13.5.2	Within 1 month

11	Fire Rated Construction	Storage room discharge directly into the exit stairs.	<p>Openings from exit enclosure to storage room, generator, basements, transformer, boiler and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guidelines (Standard) 6.14.3.</p> <p>Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storeroom/storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p>	Within 3 months
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12	Fire Rated Construction	Unsealed floor penetrations through utility riser are located in the fire-rated floor/ceiling assemblies.	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation	Within 3 months
