

# INITIAL FIRE SAFETY INSPECTION REPORT

## JL SWEATER LIMITED--EXTENDED BUILDING

RSC ID: 24171

Bishmail Road,Zirabo,Savar,Dhaka

23.91266 - 90.31118

Other Factories: JL SWEATER LIMITED (In the premises)



Inspected By: Pantha Pallob Das & Nainin Nowrose

Date: 05 Sep 2021

## Introduction:

JL SWEATER LIMITED--EXTENDED BUILDING complex was surveyed for fire safety on 05/09/2021 by The RSC Inspection Team. The purpose of the 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.

## Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The RSC cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

## General Factory Information

**Factory Building name(s):** There are total 3 structures under this ID. The name o the structures are as: 1. Building-1 (3 storied RCC), 2. Building-2 (Single storied RCC) and Shed-1 (Single storied steel structure).

## Findings & Recommendations :

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.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire-Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected openings.	<p>Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5 -hr. fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, positive latching and that they are provided with fire exit (panic) hardware where serving production floors.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p>	Within 3 months



F-2	Fire-Rated Construction	Unsealed penetrations and openings due to electric cable riser and window are located in north-west exit stair enclosure in building-1.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation as per Accord standard 6.3.1.3.	Within 1 month
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F-3	Fire-Rated Construction	The boiler and compressor are not separated by fire-rated construction. <b>Location:</b> Utility, Building-2.	Separate the boiler and compressor rooms by a minimum 1-hr fire rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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F-4	Fire-Rated Construction	The UPS and auto placket rooms are not separated by fire-rated construction. <b>Location:</b> Utility, Building-2.	Separate the UPS and auto placket rooms by a minimum 2-hr fire rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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F-5	Fire Rated Construction	Diesel fuel storage was located inside the generator room.	Remove all diesel fuel storage from generator room and relocate to the exterior such that the diesel fuel storage is at least 10 ft from required egress paths. Separate the diesel fuel storage with 2- hr. fire rated construction.	Within 3 months
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F-6	Fire Rated Construction	Dining is not separated from yarn store at shed-1.	Separate the dining facility by 3-hr rated construction and opening protection. Provide at least two exit leading directly outside of the building or exit stair.	Within 3 months
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F-7	Fire Rated Construction	Storage room is not separated by fire rated construction from other occupancies. <b>Location:</b> medical at ground floor building-1.	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Seal all penetrations and openings to maintain the fire resistance rating.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m<sup>2</sup> (250 ft<sup>2</sup>).</p> <p>If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m<sup>2</sup> (1,000 ft<sup>2</sup>). Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).</p>	Within 3 months
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F-8	Mean of Egress	Storage was observed inside exit stair on ground floor, building-1.	Remove all storage from beneath of stair.	Immediately
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F-9	Means of Egress	Building did not have stair designation signs and occupant load signs at required exit stair entrances.	Provide stair designation sign and occupant load sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
F-10	Fire Alarm & Detection system (FADS)	The addressable fire alarm and detection system is installed for the building. The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and relevant Standard.	Submit the Fire Alarm and Detection system design to RSC for review and modify the system as per the recommendation. The equipment shall be listed and 3rd party certified. The installation shall be as per NFPA -72.	Design submission within 1 month and installation modification within 4 months
				
F-11	ITM of Fire Alarm & Detection system (FADS)	Inspection, testing, and maintenance for the fire alarm 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 after installation.

F-12	Fire-Protection System (Standpipe System)	The highest occupied floor of existing building is more than 10 m (33 ft.) above grade where standpipe system is mandatory and installed but the compliance level shall be verified as per relevant Standard.	<p>Submit the standpipe system design to RSC for review and modify the system as per recommendation. The equipment shall be listed and 3rd party certified. The installation shall be as per NFPA-14, 20, 22 and 24.</p> <p>Provide sprinkler system for the fire pump room as per NFPA-13 (Extra Hazard Group-II).</p>	Design submission within 1 month and installation modification within 4 months.
				
F-13	ITM of Fire Pump (SUPS).	Inspection, testing and maintenance of the fire pump is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump and keep written records on-site, in accordance with NFPA 25.	Within 1 month.

14	ITM of Standpipe System (SUPS).	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 1 month.
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