

# INITIAL FIRE SAFETY INSPECTION REPORT

**Factory Name: Sultana Sweaters Ltd.**

**Factory ID: 24097**

**Address: Ahakhalia, Hazir Bazar, Mollik Bari, Bhaluka, Mymensingh, Bangladesh.**

**Google Coordinate: 24.351610, 90.373930**

**Other Factories: N/A**



**Inspected By: Nirmal Chandra Sinha and Md. Kamrul Hasan**

**Date: 02 February 2021**

# Fire Safety Inspection Report

## Factory Name: Sultana Sweaters Limited

### Introduction:

**Sultana Sweaters Limited** complex was surveyed for fire safety on **02/02/2021** 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.

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 Findings & Recommendations:**

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	The exit stairs (North-East and South-West) are not separated by fire rated construction and directly discharge on ground floor from Mezzanine floor office area (shed-4) and store (shed-5).	<p>Provide minimum 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.</p> <p>Provide minimum 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas) from the mezzanine. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).</p>	Within 3 months



2	Fire Rated Construction	The office is not separated by fire-rated construction from work areas and other spaces in shed-4&5.	Separate office area by a minimum 2-hr fire rated construction from production area. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months
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3	Fire Rated Construction	Maintenance room is not separate from substation in substation shed building.	Separate the maintenance room by a minimum 2-hr fire-rated construction from substation. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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4	Fire Rated Construction	<p>The FACP-2, generators, chillers and transformer rooms are not separated from each other by fire rated construction (openings, non-rated doors, penetrations) in utility &amp; substation building-2.</p>	<p>Separate the FACP, generators, chillers and transformer rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.</p>	Within 3 months
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5	Fire Rated Construction	Dining areas are not separated by fire rated construction from production area in shed-7.	Separate dining area by a minimum 2-hr fire rated construction having direct access to exit. Seal and/or protect all openings to maintain the required fire separations.	Within 1 month
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6	Egress	The day-care room does not meet ACCORD standard 3.4.2.1.1 in shed building-5	<p>Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft) or located one story above level of exit discharge with direct access to an exit enclosure.</p> <p>If the above is not possible provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair with the RSC approval.</p>	Within 1 month
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7	Fire Rated Construction	<p><b><u>All steel construction in the factory premises:</u></b> The newly constructed buildings are not fire rated construction.</p>	<p>Newly construction building shall be Type-1 &amp; Type-2 construction in accordance with Accord building standard 3.5.2.1 and BNBC part-2 Table-3.2.4. Provide fire-resistive rated construction barriers following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the rated construction barriers.</p>	Within 6 months
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8	Fire Detection & Alarm System	<p><b><u>All buildings in the factory premises:</u></b> An addressable fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and Accord standard for all buildings in the factory premises.</p>	<p>Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.</p>	<p>Design submission (Within 2 months), Modification within 4 months (if required)</p>
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9	Inspection, Testing, and Maintenance of the Fire Detection & Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 1 months (after complete installation of listed fire alarm system)
10	Egress lighting	<b><u>All buildings in the factory premises:</u></b> Directional signs are not provided where direction of the path of travel to an exit has changed. Location: All production shed building.	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 1 month

11	Emergency Lighting	<p><b><u>All buildings in the factory premises:</u></b> Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p>	<p>Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.</p>	Within 3 months
12	Inspection, testing, and maintenance of Emergency light and Exit Sign	<p><b><u>All buildings in the factory premises:</u></b> Inspection, testing and maintenance for the emergency lighting system was not in accordance with the RSC standard.</p>	<p>Inspect, test and maintain the emergency lighting system in the accordance with the RSC standard. Keep written records on-site.</p>	Within 3 months