

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: GREEN ARROW SWEATER IND.LTD.

RSC ID: 26364

GPS: 23°47'25.9"N 90°15'40.6"E

Factory Address: 68/69, SOUTH SHAMPUR, HEMAYETPUR, SAVAR, Dhaka.

Other Factories: None



Inspected By: Md. Kamrul Hasan & Amimul Haque

Date: 25-August-2025

Fire Safety Inspection Report

Introduction:

GREEN ARROW SWEATER IND.LTD. complex was surveyed for fire safety on **25/08/2025** 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):

1. Production Building (G+5), (Construction duration: 1998 - 2003; Floor Occupied: 2004)
2. Shed-1 (Washing Shed) (G), (Construction duration: 2008 - 2009; Floor Occupied: 2010)
3. Shed-02 (Substation Shed) (G), (Construction duration: 2011 - 2011; Floor Occupied: 2011)
4. Shed-03 (Generator Shed) (G) (Construction duration: 2024 - 2024; Floor Occupied: 2024)

Factory Address: 68/69, SOUTH SHAMPUR, HEMAYETPUR, SAVAR, Dhaka

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 review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Means of Egress	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p style="text-align: center;">Production Building</p>	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 1-hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>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>Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).</p>	Within 3 Months



2	Fire Rated Construction	<p>Dining area is not separated from the store area on the 5th floor.</p> <p>Production Building</p>	<p>Separate the dining area from store occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations.</p> <p>Additionally, provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space.</p>	Within 3 Months
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3	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed due to the plumbing pipe in the toilet area, and electrical cable on the 1st floor to 2nd floor.</p> <p>Production Building</p>	<p>Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.</p>	Within 3 Months
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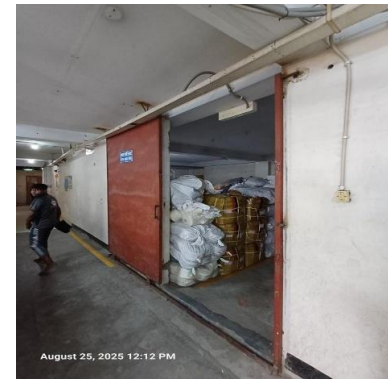
4	Fire Rated Construction	<p>Building expansion joints (two locations) opening is not sealed by fire rated sealant/material.</p> <p>Production Building</p>	<p>Expansion and contraction joints provided to accommodate expansion, contraction, wind or seismic movement shall be protected with a listed material having the same degree of fire resistance as that of the wall or floor in which it is installed.</p> <p>Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating.</p>	Within 3 Months
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5	Fire Rated Construction	<p>Areas used for combustible storage open to the factory are not separated by fire rated construction on the 1st & 2nd floor of production building and on the ground floor of shed-1.</p> <p>Location: 1st & 2nd floor of production building, and ground floor of shed-1.</p>	<p>Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. or, If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 Months
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6	Fire Rated Construction	<p>Store rooms are not separated from production area on the 1st, 2nd, 3rd, 4th & 5th floor.</p> <p>Production Building</p>	<p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).</p>	Within 3 Months
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7	Fire Rated Construction	<p>Storages were found underneath the cutting tables on the 4th floor.</p> <p>Production Building</p>	<p>Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with 3.4.2.1.6 or ,</p> <p>Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles.</p>	Within 3 Months
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8	Fire Rated Construction	<p>West exit discharge path is not separated from interior of the buildings, exit discharge path width was found 7 feet.</p> <p>Location: West discharge path of Production Building.</p>	<p>Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.</p> <p>Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation.</p> <p>Alternatively, provide a second remote discharge path to the public way.</p>	Within 3 Months
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9	Fire Rated Construction	<p>Generator room is not separated from storage area in Shed-03 (Generator shed).</p> <p>Location: Shed-3 (Generator).</p>	<p>Generator room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p> <p style="text-align: center;">Or</p> <p>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.</p> <p>Generator room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard)</p>	Within 3 Months



10	Fire Rated Construction	<p>Transformer area is not separated in Shed-02 (Substation shed).</p> <p>Location: Shed-02 (Substation shed).</p>	<p>Oil filled transformer shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Switch gears and transformer bays shall be separately housed with a 2-hr rated wall in between. Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p> <p>Oil filled transformers shall not be housed above ground level.</p>	Within 3 Months
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11	Fire Rated Construction	<p>Boiler room is not separated in Shed-1 (Washing shed).</p> <p>Location: Shed-1 (Washing shed).</p>	<p>Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p> <p>Or</p> <p>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building. Boiler room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard) .</p>	Within 3 Months
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12	Fire Rated Construction	<p>Compressor is not separated on the 3rd floor in production building and in Shed-1 (Washing shed).</p> <p>Location: Shed-1 (Washing shed).</p>	<p>Compressor or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.</p> <p>Or</p> <p>Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building. Boiler room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard) .</p>	Within 3 Months
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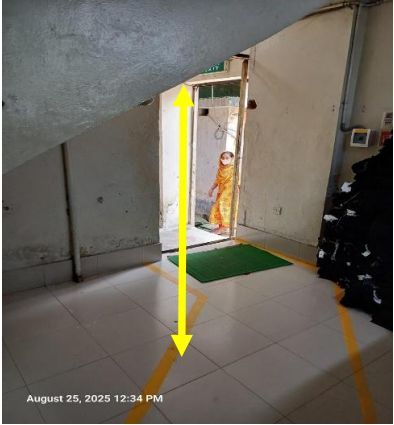
13	Fire Rated Construction	Liquefied or compressed gas cylinders were located within the factory besides west exit discharge path of production building.	<p>Remove the liquefied or compressed flammable gas cylinders. The storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building as per section 3.4.2.1.11 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>Or,</p> <p>Factory shall follow the requirements RSC Published "SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN FACTORY PREMISES" to use or store liquefied or compressed flammable gas cylinders in the factory premises.</p>	Within 3 Months
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14	Means of Egress	<p>Parapet height found 30 inches on the roof.</p> <p>Production Building</p>	<p>Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.12.</p>	Within 3 Months
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15	Means of Egress	<p>Evacuation map is not provided on the 5th floor.</p> <p>Production Building</p>	<p>Fire evacuation maps shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 13.3.</p>	Within 1 Month

16	Means of Egress	<p>Headroom measured less than the 80 inch (found 65 inches).</p> <p>Production Building</p>	<p>All means of egress shall have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.). The minimum ceiling height shall be maintained for at least 2/3 of the space or room as long as the remaining area shall be not less than 2.03 m (6 ft 8 in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.) as per RSC Technical Guideline (Standard) section of 6.3.3.</p>	Within 3 Months
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17	Means of Egress	<p>Sliding doors were observed at exits on the 5th floor, 3rd floor, south & north exit on the ground floor in the production building; and exit of Shed-1 (Washing shed).</p> <p>Production Building & Shed-1 (Washing shed)</p>	<p>Replace all sliding doors & gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type.</p> <p>Roll-down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p>	Within 1 Month
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18	Means of Egress	<p>Electrical DB board were located under the north stair on the ground floor.</p> <p>Production Building</p>	<p>Remove and re-locate all Electrical panels/DB board from exit stair enclosures.</p> <p>Or,</p> <p>Provide fire separation with stair enclosure in accordance with section 6.3.1 of RSC Technical Guidelines (Standard)¹ V1.0.</p>	Within 1 Months
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19	Means of Egress	<p>Walking path in the west discharge path of production building is not leveled.</p> <p>Location: Production Building</p>	<p>Walking surfaces shall be mostly level; however, shall not exceed a slope of 1 in 20 in the direction of travel unless meeting the requirements for ramps in 6.10 shall meet the requirements for RSC Technical Guidelines (Standard)¹ V1.0 Section 6.3.4.2</p>	Within 3 Months
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20	Means of Egress	<p>Door is swing out over south stairs on the 1st floor.</p> <p>Production Building</p>	<p>A landing shall be provided on both sides of doors used in the means of egress to facilitate uninterrupted egress of occupants. Door shall not swing out over stairs. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings.</p>	Within 1 Month
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21	Means of Egress	<p>Building did not have stair designation signs at required locations.</p> <p>All Buildings</p>	<p>Provide stair designation 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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.3.</p>	Within 1 Month
22	Means of Egress	<p>Building did not have occupant load signs at required locations.</p> <p>All Buildings</p>	<p>Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.4.4</p>	Within 1 Month

23	Means of Egress	<p>Common path of travel distance found 108 feet in Shed-1 (Washing).</p> <p>Shed-1 (Washing shed)</p>	<p>The common path of egress travel shall not exceed 23 m (75 ft). Where the building is provided with a complete automatic sprinkler system, the common path of egress travel shall not exceed 30 m (100 ft). Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.</p>	Within 3 Months
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24	Egress Lighting	<p>Exit sign found not illuminated at many locations.</p> <p>All Buildings</p>	<p>Regularly inspect all exit signage/directional signage as per RSC Technical Guidelines (Standard)¹ V1.0. and replace/install lights as needed to illuminate signs.</p>	<p>Within 1 Month</p>
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25	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>All Buildings</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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 10.12.2.</p>	Within 3 Months
26	Fire Alarm & Detection System (FADS)	<p>The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.</p> <p>All Buildings</p>	<p>Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72 to meet section 5.7.3 of RSC Technical Guideline (Standard)</p> <p>Submit the proposed fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC/ RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	Design within 2 month and modification/ installation with 4 months



27	Fire Suppression System (SUPS)	<p>The required standpipe system is not installed in accordance with the RSC Technical Guidelines (Standard)¹ V1.0.</p> <p style="text-align: center;">Production Building</p>	<p>A standpipe system shall be installed in buildings with the highest occupiable floor 10 m (33 ft.) above grade or more to meet section 5.4.2 of RSC Technical Guideline (Standard). If the building is protected throughout by an approved automatic sprinkler system a class I system shall be permitted.)</p> <p>Installation of the Standpipe system shall be in accordance with RSC Technical Guidelines (Standard)¹ V1.0. section 5.4 and NFPA 14.</p> <p>Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard)¹ V1.0. and NFPA 14,20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.</p>	<p>Design within 2 month and modification/ installation with 4 months</p>
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28	Fire detection system inspection, testing and maintenance	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 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month after installation.
29	Standpipe system inspection, testing and maintenance	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 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month after installation.

30	Fire Pump inspection, testing and maintenance	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 Month after installation.
31	Emergency lighting system inspection, testing and maintenance	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard) ¹ V1.0.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) ¹ V1.0.. Keep written records on-site.	Within 1 Month
32	Portable fire extinguishers inspection, testing and maintenance	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 and RSC Technical Guidelines (Standard) ¹ V1.0.	Within 1 Month

33	No smoking signs	<p>No smoking is not found in the factory.</p> <p>All Buildings</p>	<p>Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs. Smoking sign shall post in accordance with section 13.5 of RSC Technical Guideline (Standard)</p>	Within 1 Month
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34	Inspection, Testing & Maintenance (Fire)	Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard) ¹ V1.0.	Fire drills shall be conducted according to section 13.2 of RSC Technical Guidelines (Standard) ¹ V1.0. Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A.	Within 1 Month
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