

INITIAL FIRE SAFETY INSPECTION REPORT

Sams Attire Ltd (Extension 2)

RSC ID: 25768

23°56'11.3"N 90°17'04.6"E

Bhuiyan Tower, Plot No. 10, Ashulia Jamgora, Savar, Dhaka

**Other Factory : Sams Attire Ltd (9236) and Sams Attire Ltd, Extension (23740)
Global Knitwear Ltd. (10255, Owned by another owner)**



Inspected By: Tanvir Jubayer Rahman

Date: 03-November-2024

Fire Safety Inspection Report

Sams Attire Ltd (Extension 2)

Introduction:

Sams Attire Ltd (Extension 2) complex was surveyed for fire safety on **03-Nov-2024** 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): A short description of the structures of this RSC ID are following,-

SI	Name	Construction year	Type
01	Building-4 (Wearhouse Building) Four storied RCC building with basement. (B+G+3) Approx. Area: 19,200 Sft Note: The building is constructed in two separate sections, referred as the north and south parts, and connected by expansion joint. The building has a approval for 6 storied above grade with one basement.	Construction year : December 2022 to December 2023. Occupied year : October 2023. Approval Date: 19-June-2023 (from Savar Cant. Board)	New Construction
02	Building-5 (RMS Room & Security room) Single Storied Masonry Structure Approx. Area: 150 Sft	Construction year : March 2024 to April 2024. Occupied year : April 2024.	New Construction

Other Structures in the factory premises:

Building-1 (6 std RCC Production Building), **Building-3** (1 std RCC Sub-station building)

Above mentioned 2 (Two) buildings are covered under RSC ID: 9236.

Building-2 (4 std Medical,Childcare and store building), **Shed-5** (Dining, CAD and Sample section)

Above mentioned 1 (One) building and 1 (One) shed are covered under RSC ID: 23740.

There is another RSC ID Located inside the premises named "Global Knitwear Ltd." (RSC ID: 10255) owned by another owner. This ID contains,-

1) Main Production Building (5 storied) ; 2) Extended Utility Building (single storied); 3) Wastage Storage Shed (single Storied).

Factory Address: Bhuiyan Tower, Plot No. 10, Ashulia Jamgora, Savar, Dhaka

Additional Information:

1. The four storied building is provided with only one exit stair. Single exit serving the 1st floor, 2nd floor and 3rd floor, whereas single exit is permitted up to second story (conditional) as per RSC Technical guideline (Standards) Section 6.6.2.

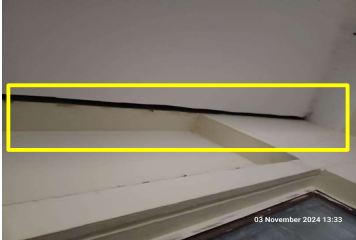
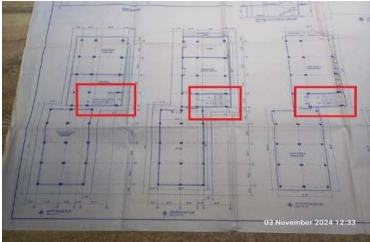
2. The factory has already reviewed proposed standpipe system drawing from RSC along with other RSC ID of the premises (RSC ID: 9236, 23740 and 25867 combinedly) on September 2024.

Findings & Recommendations :**Sams Attire Ltd (Extension 2)**

Table 1 summarizes the major fire safety issues identified during the inspection of main buildings. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the similar types of findings throughout the premises. 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-01	Fire Rated Construction	The fire pump room is not provided with adequate fire separation. Location: Basement of building-4	Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20. In the case exterior it shall be 50 ft away from another occupancy.	Within 3 Months
		 		
F-02	Fire Rated Construction	The building-4 did not have proper distance or separation from adjacent building-2 as per BNBC Part 3 Table 3.2.2	All new buildings and structures shall be separated from other buildings in accordance with BNBC 2020 Part 3 Table 3.2.2 and BNBC 2020 Part 3 Section 2.4.1.3.	Within 3 Months
		 		

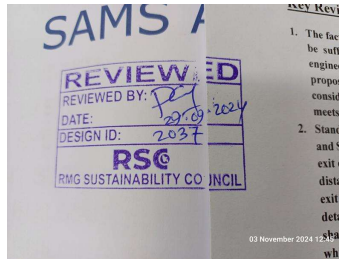
F-03	Fire Rated Construction	Building expansion joint has been observed without protection to prevent smoke or fire propagation from one floor to another floor. Location: Building-4	Expansion and contraction joints provided to accommodate expansion, contraction, wind or seismic movement shall be protected with an approved material having the same degree of fire resistance as that of the floor/ceiling in which it is installed. The used sealer materials shall be 3rd party certified and installation shall be as per manufacturer's guideline and certified design by listing authority.	Within 3 Months
 				
F-04	Means of Egress	A single means of exit has been provided for the four storied building. Location: Building-4	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard)-6.6.2. A single means of egress is permitted by RSC Technical Guideline (Standard)-6.6.5 or where a greater number is required by RSC Technical Guideline (Standard)-6.6.3. For Basement/ Ground floor: Maintain maximum 50 occupants having a travel distance of 23m (75 ft) or provide additional exit. For First Floor: Maintain maximum 30 occupants having a travel distance of 23m (75 ft) for occupancy F,G & H only or, Provide additional exit. For 2nd and 3rd floor, floors shall be kept completely out of bounds for operational activity and remain unused until second exit is ensured.	Within 3 Months
 				

F-05	Means of Egress	Occupiable roofs were provided with parapets in some portions, but parapets or guards were not ensured along its entire periphery. Location: Building-4	All accessible roofs shall be enclosed by parapets or guards with a minimum height of 1067 mm (42 in.).	Within 1 Month
 				
F-06	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction on building-4.	Provide minimum 1-hr rated doors for buildings with 3 or fewer stories and 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.	Within 3 Months
 				

F-07	Means of Egress	Storage room, basement pump room and boiler rooms discharges directly into exit stair enclosure without vestibules. Location: Building-4	Openings from exit enclosures to storage areas, basements, boiler rooms, and similar normally unoccupied spaces shall be provided with vestibules with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, basement, boiler room, compressor room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1 m and length 1.8 m.	Within 3 Months
				
F-08	Means of Egress	The width of egress court serving as exit discharge for the building-4 was measured 7 feet 3 inch, where unprotected openings within 10 ft height from floor of the court were available.	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. 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.	Within 3 Months
				
F-09	Means of Egress	Width of exit stair was found less than 1.5 m (60 in.) at Building-4.	For newly constructed stairs, stairs shall have a minimum width of 1.50 m (60 in.) for all industrial occupancies according to The RSC Technical Guidelines (Standard).	Within 3 Months

F-10	Means of Egress	Handrails are not provided on both sides of the exit stair on all floors. Location: Building-4	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread.	Within 1 Month
 				
F-11	Means of Egress	Building did not have stair designation signs and occupant load signs at required locations on all floors. Location: Building-4	Provide stair designation signs and occupant load signs at required locations.	Within 1 Month
 				

F-12	Emergency Lighting	The directional signs are not provided where there is a change in direction and where the continuation of the egress path is not obvious. Location: Building-4	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
				
F-13	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 1 Month
				
F-14	ITM Emergency Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 Month
F-15	ITM extinguisher	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 onsite, in accordance with NFPA 10.	Within 1 Month

F-16	Fire Suppression System (SUPS)- Standpipe System	The main building (building-4) has an occupied floor greater than 10 meter (33 feet) where required standpipe system found under installation. Standpipe system installation requires functional test to confirm compliance with NFPA 14, 20 and RSC standards.	Install the standpipe system throughout the building in accordance with reviewed drawing, RSC standard, NFPA 14,20,22 and 24. The factory shall complete the installation/modification as per the standard and shall submit the design & documents to RSC for Pre-T&C process accordingly.	Within 4 Months
  				
F-17	ITM of Standpipe system	Inspection, testing and maintenance of the standpipe system is not found in accordance with NFPA 14 and 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and 25.	Within 1 Month after installation
F-18	ITM of fire pump	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 10 and 25 or as per RSC standard.	Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 20 and 25 or as per RSC standard.	Within 1 Month after installation

F-19	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.	Design & Installation of Fire Alarm system shall be in accordance with RSC standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. After installation the owner shall contact then RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation.	Design-2 Months. Installation-4 Months.
				
F-20	ITM of Fire Alarm and Detection System	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. (After Installation)	Within 1 Month
F-21	Human Element Program	The required no smoking signs are not present in the factory.	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.	Within 1 Month
F-22	Human Element Program	Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard) V1.0.	Fire drills shall be conducted according to section 13.2 of RSC Technical Guidelines (Standard) V1.0. Fire drills shall be conducted on a quarterly basis as outlined in BNBC 2020 Part 4 Appendix A for all garment facilities. Fire drills shall be conducted under the direction of a Fire Safety Director.	Within 3 Months