

INITIAL FIRE SAFETY INSPECTION REPORT

Ahsan Knitting Ltd.

RSC ID: 24475

Siddhirgonj Pool, Siddhirgonj Narayangonj.

Other Factories: None



Inspected By: Pantha Pallob Das & Shahina Imam

Date: 04 October 2022

Fire Safety Inspection Report

Introduction:

Ahsan Knitting Ltd. complex was surveyed for fire safety on 04/10/2022 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): Ahsan Kniting Building.

Factory Address: Siddhirgonj Pool, Siddhirgonj Narayangonj.

Points of contact:

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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
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 non-functionality of fire rated doors and non-rated opening.	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating with 1.5 hr. fire rated door and penetration sealers. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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-2	Fire Rated Construction	Rooms used for combustible storage at 1 st floor are not separated by fire rated construction.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 0.75 hr. (45 Minutes) fire rated fire rated barrier construction.	Within 3 Months
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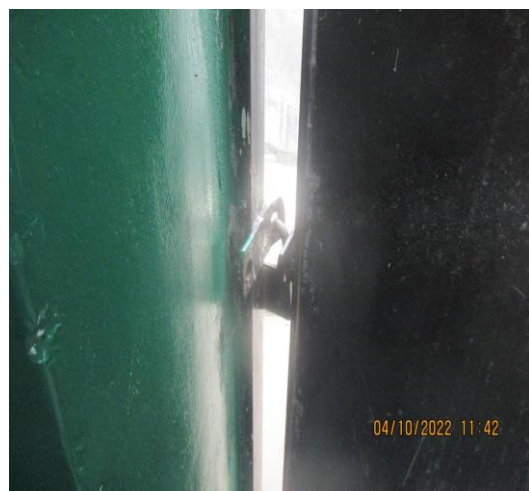
F-3	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy on 5 th floor cutting section	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. - Or 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. - or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 Months
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F-4	Fire-Rated Construction	The factory is using/storing liquefied gas cylinder (C.N.G) beside production building without separation.	The storage building must be at least 3 meters away from any other building and boundaries. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. The building must be mechanically ventilated to control the accumulation of flammable vapors. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, Chief Inspector of Boiler (CIOB) and Chief Inspector of Explosives Bangladesh (CIEB).	Within 1 month
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F-5	Means of Egress	Egress doors and gates with locking features are provided at building exits. All doors and gates were open and unlocked during inspection. (2 Exits at discharge level).	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and RSC Technical Guidelines (Standard) Part 6 Section 6.8.2	Immediately
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F-6	Means of Egress	Sliding type doors have provided along means of egress. Location: Discharge Points, Warehouse & Sample section	Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
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F-7	Means of Egress	Building did not have stair designation signs & occupant load signs at required locations.	Provide stair designation sign & 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
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F-8	Mean of Egress	Width of aisles is less than 0.9m (36-in.) at 1 st floor store area of the Building.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months
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F-9	Mean of Egress	Common path of egress travel exceeds the limit at ground floor Warehouse.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 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). The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft). Please construct an additional exit if reconfiguration does not solve the non-compliance.	Within 3 months



F-10	Egress 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
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F-11	Egress Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guideline (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guideline (Standard). Keep written records on-site.	Within 1 Month
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F-12	Fire Alarm and 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.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. Complete the fire alarm installation as per NFPA 72. Submit drawings, testing records, equipment certification and other relevant documentation to the RSC prior installation for review.	Design within 2 months and installation within 4 months.
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F-13	Inspection, Testing and Maintenance of FADS.	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with standard.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Within 1 month after installation.
F-14	Fire Protection System (Standpipe)	The highest occupied floor of existing building is more than 10 m (33 ft.) and less than 23 m above grade where standpipe system is mandatory and the standpipe system is not installed in accordance with NFPA 14, 20,22 and 24.	Provide Class-III standpipe system (Both a 40 mm connection with attached hose and a 65 mm connection) throughout the building in accordance with NFPA 14, 20,22 and 24. Submit design to RSC prior installation.	Design Review within 2 months and installation within 4 months.
F-15	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation)

F-16	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation)
F-17	ITM of Fire Extinguishers	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 and The RSC Technical Guidelines (Standard).	Within 1 months