

INITIAL FIRE SAFETY INSPECTION REPORT

Hannan Knit & Textiles Ltd. (Extension)

RSC ID: 25763

ADDRESS: 505, Kalmeshor, Board Bazar, Dhaka

Other Factories: Hannan Knit & Textiles Ltd.(9193)



Inspected By: Md. Anisuzzaman

Date: 21 October 2024

Fire Safety Inspection Report

Hannan Knit & Textiles Ltd. (Extension)

Introduction:

Hannan Knit & Textiles Ltd. (Extension); complex was surveyed for fire safety on **21/10/2024** 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): There are five structure under this ID-25763 which are listed below:

- 1. Jacquard Shed**, Single Storied Steel Shed(Construction: Aug-2016 to Nov-2018 & Occupied: Apr-2019. Total area= 966.68 SQM, Design approved by Pourashava, Tongi on date 15 Nov 2012, Interim Construction).
- 2. ETP Building**, B+G+2, Three Storied RCC+ Steel structure (Construction: Mar -2018 to Nov-2019 & Occupied: Dec-2019). Total area=492.6 SQM, Design approved by Pourashava, Tongi on date October-2013, Interim Construction)
- 3. Yarn Store**, Two Storied (G+1), G-RCC, 1F- Steel structure (Construction: Apr-2018 to Nov-2019 & Occupied: Dec-2019. Total area=446 SQM, Design approved by Pourashava, Tongi on October 2013, Interim Construction).
- 4. Utility building** , Two Storied RCC Building. (Construction: Jul-2018 to Mar-2019 & Occupied: Mar-2019. Total area=497 SQM, Design approved by Pourasha, Tongi on date October 2013, Interim Construction). This building height approximately 27feet.
- 5. RMS & Security** , Single Storied RCC building(Construction: May 2009 to Dec 2009 & Occupied: Jul 2010. Total area= 23.3 SQM, Design approved by Pourashava, Tongi)

Factory Address: 505, Kalmeshor, Board Bazar, Dhaka

Points of contact:

1. Name: Sabrina Shormi
Designation: Manager (HR admin & compliance)
Contact No: 01921317775
Email: sabrina@fancybd.com

2. Name: Engr. Md Jashim Uddin
Designation: Civil Engineer
Contact No: 01728915155
Email: jashim@fancybd.com

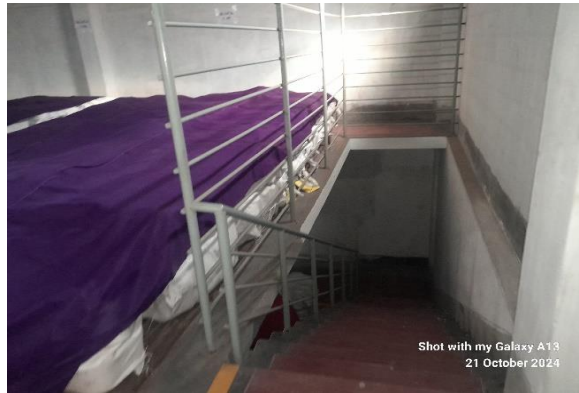
Findings & Recommendations :

Table 1-3 summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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

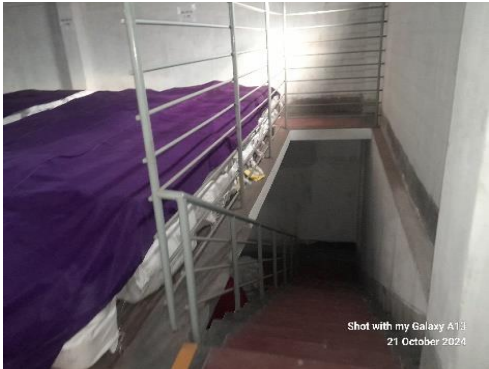
Table-1: Finding & recommendation for Two Storied Yarn Store building

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Mean of egress	Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction. Location: Two Storied Yarn Store	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating with 1- hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated materials. 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

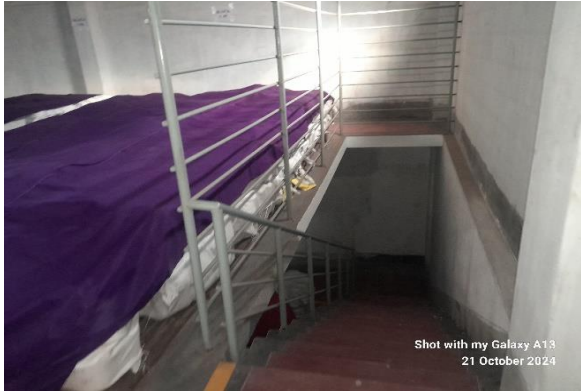


F-2	Means of egress	Exit stairs do not discharge directly to the outside. Location: Both exit stair of the two storied yarn store	Modify stair to discharge directly outside. Or Provide 1-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).	Within 3 months
-----	-----------------	---	--	-----------------



F-3	Means of egress	Width of exit stairs (3feet 7 inch) are less than 1.5 m (60 in.). Location: Both of exit stair of the two storied Yarn store	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 3 months
  				
F-4	Means of Egress	Handrails are not provided on both sides of both exit stairs. Location: Two storied yarn store	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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.) .	Within 3 months

 				
F-5	Means of Egress	Updated Occupant load sign is not posted at the exit stair at all level. Location: Yarn Store	Updated Occupant load sign shall be posted at the entrance to exit stair at all level.	Within 1 month

F-6	Means of Egress	Store room directly open into exit stair enclosure without vestibule. Location: First floor of the both stair yarn store	Openings from exit enclosure to storage shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guideline (Standard) V1-6.14.3 . Provide a 2 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. The minimum width for vestibules shall not be less than 1.1m and length 1.8m as per BNBC, Part-4, Chapter-3, section 3.13.3. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
 				

F-7	Means of Egress	Building did not have stair designation signs at the required locations. Location: Yarn Store	Provide stair designation signs at the required locations.	Within 1 month
F-8	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Yarn Store	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-9	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: Yarn Store	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.	Within 3 months
F-10	ITM(Egress lighting)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard. Location: Yarn Store	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months
F-11	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 1 months

Findings & Recommendations :

Table-2: Finding & recommendation for Single storied Jacquard Shed

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-12	Fire rated Construction	The main structural elements of factory buildings (G and/ or H2) are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. Building peak height appr. 10.06 Meter. As per RSC Technical Guidelines (Standard) V1 1.5.5 this building is defined as an interim building & have lack of front space as per standard. so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0 Location: Jacquard Shed	For interim construction, the building shall be Type 1 or Type 2 construction as required in BNBC 2006 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 & Section 4.4 and Table 4.4.1 of the RSC Technical Guidelines (Standard) V1. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members. Factory shall ensure that, all the design, datasheet, certificate, and the design-philosophy has been reviewed from the RSC prior to install the passive fire protection system.	Within 6 months
				
F-13	Means of Egress	Updated Occupant load sign is not posted at the exit stair at all level. Location: Jacquard Shed	Updated Occupant load sign shall be posted at the entrance to exit stair at all level.	Within 1 month

F-14	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Jacquard Shed	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-15	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: Jacquard Shed	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.	Within 3 months
F-16	ITM(Egress lighting)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard. Location: Jacquard Shed	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months
F-17	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. Location: Jacquard Shed	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 1 months

Table-3: Finding & recommendation for Three storied ETP building.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-18	Mean of egress	Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction due to non-functional fire doors Location: Three storied ETP building	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr. fire-rated construction for four or more stories & 1 -hr. fire rated construction for buildings with three or fewer stories. 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 all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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
 Shot with my Galaxy A13 21 October 2024				

F-19	Means of egress	Width of exit stairs are less than 1.5 m (60 in.). Location: Three storied ETP building(width 3feet 1inch) and Two storied Utility building(width 3feet)	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 3 months
 				
F-20	Means of Egress	Updated Occupant load sign & stair designation signs are not posted at the exit stair at all level. Location: ETP & Utility building	Updated Occupant load sign & stair designation shall be posted at the entrance to exit stair at all level.	Within 1 month
F-21	Means of Egress	Second exit of the ETP building through the 4-storied main production building(ID-9193) without proper separation. Location: ETP building	Assemblies of Occupancy E3, E4 and E5 shall have at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different direction as per BNBC 2006, part 4 chapter 3 section 3.21.3.	Within 3 months

 				
F-22	Means of Egress	Updated fire evacuation plan & maps is not posted at the entrance of all exit stair. Location: ETP building	Update Fire evacuation plan & maps shall be posted at the entrance to each exit stair as per RSC Technical guideline standard V1-13.3	Within 1 month
F-23	Means of Egress	Door width found 33 inch at second exit at 2nd floor of ETP building which is not as per standard Location: ETP building	Doors in a means of egress shall have a minimum width of 1 m (39in) as per RSC Technical guideline standard V1-6.5.6.1.2 .	Within 3 months
				

F-24	Fire rated construction	Three storied ETP building to 4-Storied main production building (RSC ID: 9193) distance found Approximately 7feet 3inch which exterior wall is not fire rated separation. Location: ETP building	Separate the exterior wall from three storied ETP to 4-storied main production building(ID-9193) by 2 hr. fire rated construction as per BNBC-2006, part-3 , Table-3.2.2.	Within 3 months
 				
F-25	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: ETP 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
F-26	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location:: ETP building	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.	Within 3 months

F-27	ITM(Egress lighting)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard. Location: ETP building	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months
F-28	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. Location : ETP building	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 1 months
F-29	Means of egress	A single means of egress is provided from first floor two storied Utility building. Location: Two storied utility building	Ground or basement story (occupancy K) is allowed a maximum of 50 occupants and 23 m (75ft) travel distance. The second story (occupancy F,G, H) is allowed a maximum of 30 occupants and 23 m (75ft) travel distance. All other stories require a minimum of 2 egress exits. Provide a secondary exit from first floor.	Within 3 months