

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Jinnat Knitwears Limited (Sreepur) (Extension)

RSC ID: 24543

ADDRESS: Dhanua, Sreepur, Gazipur, Bangladesh.

Other Factories: Jinnat Knitwears Limited (Sreepur) (23754)



Inspected By: Md. Ferdaus Jaman and Meher Sultana Moitry

Date: 8th Jan, 2023

Fire Safety Inspection Report

Factory Name: Jinnat Knitwears Limited (Sreepur) (Extension)

Introduction:

Jinnat Knitwears Limited (Sreepur) (Extension) complex was surveyed for fire safety on **08/01/2023** 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):

Factory Building name(s): There are total 7 structures in the factory compound under 2 different RSC IDs. The buildings are as below:

1. Building-1: 8 Storied Main RMG building (RCC)-(B+G+7 with Mezzanine), ID: 23754
2. Building-2: 4 Storied Utility building (RCC)-(B+G+3), ID: 23754
3. Building-3: 6 Storied Medical, Day-care and Office building (RCC)-(G+5), ID: 23754
4. Building-4: 8-Storied Printing Building (RCC)-(G+7), ID: 24543
5. Building-5: 01-Storied Security Checkpost-1 & RMS Building (RCC), ID: 24543
6. Building-6: 01-Storied Security Checkpost-2 (RCC), ID: 24543, and
7. Building-7: 02-Storied EGB Shed (Steel Structure) EGB Room, ID: 24543

The report is generated for the factory ID-24543 of the Building-4, Building-5, Building-6 and Building-7.

Factory Address: Dhanua, Sreepur, Gazipur, Bangladesh.

Findings & Recommendations :

Table 1 summarize 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 review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Building-04: Datasheets and certificates of the installed rated doors and it's accessories for all exit stairs, utility shafts, and sub-chemical storage rooms throughout the factory building are not found on-site for review. Also some double leaf doors are not closing properly.	Collect all datasheets and certificates for the installed fire rated doors and it's accessories and keep on-site for further review. Also ensures that all the doors are functioning properly. If not available, or certification is not approved, install new, properly certified fire rated doors/accessories in accordance with The RSC Technical Guideline (Standard). Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guidelines (Standard) 6.8.3.1	Within 3 months

   					F-2	Fire Rated Construction	Unsealed penetrations and openings due to utility riser shaft (standpipe, water supply line, IT and CCTV line) are located in the exit stair enclosures. Location: Stair-1 and stair-2 on ground floor.	Seal all penetrations and openings in exit stair enclosure walls a minimum 2-hr fire rated separations.	Within 3 months
F-2	Fire Rated Construction	Unsealed penetrations and openings due to utility riser shaft (standpipe, water supply line, IT and CCTV line) are located in the exit stair enclosures. Location: Stair-1 and stair-2 on ground floor.	Seal all penetrations and openings in exit stair enclosure walls a minimum 2-hr fire rated separations.	Within 3 months					

				
F-3	Fire Rated Construction	Elevator shafts are directly open into the inside of exit enclosure. Located: Stair-1 and stair-2	Modify the elevator shaft as per The RSC Technical Guideline (Standard) V1-6.14.3. An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure.	Within 6 months
				

F-4	Fire Rated Construction	Chemical storage room is not properly separated by fire-rated construction from surrounding occupancy. Location: On 7th floor of building-4.	Separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations for 4-hrs. Opening is not permitted for 4-hrs fire rated separation. Keep 16-points SDS of all chemicals in the storage area. Note: Construction type shall be Type-1 and separation shall be as per Table 3.2.1 of BNBC-2006.	Within 6 months
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F-5	Fire Rated Construction	Storage discharges directly into the exit stair discharge. Location: On 7th floor of stair-1, stairs-2 and stair-3.	Openings from exit enclosure to storage room, generator and transformer spaces shall be provided with a vestibule 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, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 4 months
 				

F-6	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Followings are the description of openings or penetrations indicating specific locations: 1. Passing of BBT riser through rated walls from ground floor to 6th floor of production building (B-4). 2. PVC pipes penetrate the floor slabs in toilet block of production building (B-4). 3. Floor penetrations due to fire alarm/ IT/ electrical cable riser in production building (B-4). 4. PVC pipes penetrate the floor slabs for supplying water on all floors of production building (B-4). 5. Standpipe riser penetrate the floor slabs on all floors of production building (B-4)	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. 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
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F-7	Means of egress	Electrical DB panel has been found in the exit stair-2 on ground floor of B-4.	Remove the electrical DB panel from exit stair to a safe location. Also remove storage items from the exit stairs and egress paths.	Within 1 month



F-8	Means of egress	Egress gates with locking features are provided at 5th floor of expose rooms of building-4. Location: On 5th floor of B-4.	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 The RSC Technical Guidelines (Standard) 6.8.2.	Within 1 week
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F-9	Means of Egress	Building did not have stair designation signs & occupant load signs at required locations. Location: 8-storied printing building (B-4)	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-10	Means of Egress	Fire evacuation maps are not posted at the entrance to each exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
				
F-11	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: On several floors of Building-4.	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 1 month

				
F-12	Egress 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: On several floors of production building (B-4).	Install 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	Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units.	Remove manual on/off switches from [emergency lighting / exit signage] units to prevent them from being switched off.	Within 1 month
				

F-14	Egress Lighting ITM	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 3 months
F-15	Fire Alarm & Detection system	Automatic fire alarm and detection system installation complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings in accordance with review comment, 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. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design Review within 2 months and installation within 4 months

				
F-16	ITM of Fire Alarm & Detection system	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site	Within 1 month (after installation)

F-17	Fire Protection System (Fire Pump & Standpipe)	Standpipe installation requires detailed review to confirm compliance with NFPA 14, 20 and RSC Technical Guideline (Standard). Location: Production building (B-4)	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 Guideline (Standard) 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.	Design Review within 2 months and installation within 4 months.
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F-18	Fire Protection System (Sprinkler)	Sprinkler system installation requires detailed review to confirm compliance with NFPA 13, 14, 20, 22 and RSC Technical Guideline (Standard). Location: Building-4.	Submit the fire pump, standpipe and sprinkler system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 13, 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.	Design Review within 2 months and installation within 4 months.
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F-19	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-20	Fire Protection System(ITM of Standpipe and Sprinkler)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 13, 14, 25 and RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 13, 14, 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 Month (after installation)

F-21	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 3 months
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