

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: MAMUN KNITWEAR LTD.

RSC ID: 24520

ADDRESS: Ambagh Road, Konabari, Nilnagar, Gazipur

Other Factories: MM Knitwear Ltd. (ID: 9358) and MM Knitwear Ltd. Extension Buildings (ID: 24162) (In the premises)



Inspected By: Md. Ferdaus Jaman and Shahina Imam

Date: 29 May, 2023

Fire Safety Inspection Report

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Introduction:

MAMUN KNITWEAR LTD. complex was surveyed for fire safety on 29/05/2023 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): 7-Storied RCC Main Production Building (Building-11)

Factory Address: Ambagh Road, Konabari, Nilnagar, Gazipur.

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	Compressor room is not separated from production area. Location: Ground Floor of Building 11	Separate the Compressor room by minimum 1-hr firerated construction. Seal and protected all openings to maintain the required fire separations.	Within 3 months
 				

F-2	Fire Rated Construction	Storage rooms at 6th floor discharges directly into the exit stair discharge.	Openings from exit enclosure to storage room, generator and hazard 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, substation room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 Months
 				

F-3	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction. Location : 5th Floor & Ground floor Building-11.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or, Where separate storage rooms are not feasible, 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. 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	Within 3 months
 				

F-4	Fire Rated Construction	Adequate datasheets and certificates were not found on-site for the installed fire rated doors for all exit stairs, elevator shafts and storage rooms. Location: Building-11.	Collect proper datasheets and certificates for the installed fire rated doors and keep on-site for further review. If not available, or certification is not approved, install new fire rated doors in accordance with the RSC Technical Guideline (Standard).	Within 3 Months
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F-5	Fire Rated Construction	Floors to floor opening due to BBT Riser and Cable riser are not properly separated by fire rated construction. Location : Building-11	Provide a minimum 3-hr fire rated separation to separate each floor by fire rated construction. Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation.	Within 3 months
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F-6	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Office area	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
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F-7	Inspection Testing and Maintenance of 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 accordance with the RSC technical guidelines (standard). Keep written records on-site.	Within 1 month
F-8	Inspection Testing and Maintenance of Portable Fire 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-9	Fire Protection System (Standpipe)	The building with an occupiable floor greater than 10 m (33 ft) above the finished grade is protected with an standpipe system. Fire pump, water supply & standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22, 25 and RSC standards.	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). Class I standpipe system is acceptable with automatic sprinkler system.	Design Review within 2 months and installation within 4 months.



F-10	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 3 month after installation.
F-11	Inspection, testing, and maintenance of the automatic sprinkler system (ITM).	Inspection, testing, and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler system, and keep written records on-site, in accordance with NFPA 25.	Within 3 months after installation.

F-12	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 and the RSC Technical Guideline (Standard).	Inspect, test and maintain the standpipe system in accordance with NFPA 25 and the RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 month after installation.
F-13	Fire Alarm & Detection system	An addressable fire alarm & detection system has been found installed which is required to be reviewed and verified. Location: Building-11	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review, modification (if required) shall have to done as per the reviewed design and NFPA-72 with a listed Addressable Fire Alarm System. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and installation within 4 months.
F-14	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	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 after installation.