

INITIAL FIRE SAFETY INSPECTION REPORT

Mark Sweater Ltd. (Extension)

RSC ID: 24775

Surabari, Kashimpur, Gazipur sadar, Gazipur.

Geographical Coordinates: 23.97186, 90.32198

Other Factories: Mark Sweater Ltd. (RSC ID: 11808)



Inspected By: Mohammad Anayet Hossain

Date: 24-Dec-2023

Fire Safety Inspection Report

Mark Sweater Ltd. (Extension)

Introduction:

Mark Sweater Ltd. (Extension) complex was surveyed for fire safety on **24-Dec-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):


B#1	Shed-1, Yarn & Wastage Shed (Single storied steel shed)	Type of construction: Steel Year of construction Mar-2017 to Jul-2017 Construction period: Interim Building
B#2	Shed-2, Wastage Shed-2 (Single storied steel shed)	Type of construction: Steel Year of construction Jul-2022 to Jul-2022 Construction period: New Building
B#3	Shed-3, Parking Shed (Single storied steel shed)	Type of construction: Steel Year of construction Aug-2022 to Aug-2022 Construction period: New Building
B#4	Building-4, ETP Building (2-storied RCC Building)	Type of construction: RCC Year of construction Feb-2019 to Jan-2020 Construction period: Interim Building
B#5	Building-5, RMS Building (1-storied RCC Building)	Type of construction: RCC Year of construction Jan-2021 to Mar-2021 Construction period: New Building


Factory Address: Surabari, Kashimpur, Gazipur sadar, 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	<p>The main structural element of the building is constructed by steel element which is non-rated and were found in exposed condition without any fire protection.</p> <p>Location: Shed-1, Yarn & Wastage Shed (Single storied steel shed).</p>	<p>The building shall be type-I or II construction. So, provide require rating in the structural element of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4.</p>	Within 6 months
				

F-2	Means of Egress	<p>Collapsible gates/sliding doors/rolling shutter doors are provided at building exits and along egress routes.</p> <p>Location: Shed-1, Yarn & Wastage Shed.</p>	<p>Replace all collapsible gates/ sliding doors/ rolling shutter doors along the means of egress with side-hinged, swinging egress doors.</p> <p>If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.</p>	Within 1 month.
				
F-3	Means of Egress	<p>Dead-end corridor/aisles exceed 15 m (50 ft) limit at Shed-1(Yarn & Wastage Shed).</p>	<p>Reconfigure the egress arrangement to reduce the maximum dead-end distance to not more than 15 m (50 ft) in accordance with RSC Technical Guidelines Standard V1.0-6.13.3.</p>	Within 3 months

F-4	Means of Egress	<p>Aisles marking has not been provided on the floor properly.</p> <p>Location: Shed-1(Yarn & Wastage Shed).</p>	<p>Provide minimum aisle widths of 36 inch with proper marking & update on evacuation map.</p>	<p>Within 3 months</p>
 <p>The photograph shows a narrow aisle in a storage shed. On the left, there are stacks of cardboard boxes and some bags. On the right, there are tall stacks of flat cardboard boxes. A red vertical pole is visible in the center of the aisle. The floor is cluttered with various items, including a green wheel and a blue bucket. A timestamp in the bottom right corner of the photo reads '24/12/2023 11:42'.</p>				
F-5	Means of Egress	<p>Uneven path of travel and blockage in exit access.</p> <p>Location: Shed-1(Yarn & Wastage Shed).</p>	<p>Remove unnecessary items and level exit path to the public way.</p>	<p>Within 1 month</p>



F-6	Means of Egress	Building did not have occupant load signs at the required locations.	Provide occupant load signs at the required locations.	Within 1 month
F-7	Means of Egress	Fire evacuation maps is not posted near the exit.	Fire evacuation maps shall be posted at the entrance to each exit.	Within 1 month

F-8	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit.	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-9	Egress Lighting	Exit sign and Directional Sign are not provided at and towards exit.	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
F-10	Fire Alarm & Detection system	The fire alarm & detection 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.	Design Review within 2 months and installation within 4 months



F-11	Fire Alarm & Detection system (ITM of FADS)	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-12	Fire Alarm & Detection system (Single station)	The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupant.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Design Review within 2 months and installation within 4 months



F-13	ITM of Egress Lighting	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-14	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