

INITIAL FIRE SAFETY INSPECTION REPORT

MUAZUDDIN TEXTILE LTD (Extension 3)

RSC ID: 25610

B-31, PLOT # 235/236, EAST CHANDURA, SHOFIPUR, KALIAKOR, GAZIPUR, BANGLADESH.

Other Factories: MUAZUDDIN TEXTILE LTD (ID:9998), Muazuddin Knit Fashion Limited (ID:10862), Muazuddin Knit Fashion (new) (ID: 12622), Muazuddin Textile Limited New Unit (ID:23225), Muazuddin Textile Ltd. (Sheds) (ID: 24287)



Inspected By: Yusuf Ahmed

Date: 21-Apr-2024

Fire Safety Inspection Report

Factory Name: MUAZUDDIN TEXTILE LTD (Extension 3)

Introduction:

MUAZUDDIN TEXTILE LTD (Extension 3) complex was surveyed for fire safety on **21 April 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):

1. Chemical and Fabric Store Building- 3-storied RCC Building.

Factory Address: B-31, PLOT # 235/236, EAST CHANDURA, SHOFIPUR, KALIAKOR, GAZIPUR, BANGLADESH.

Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

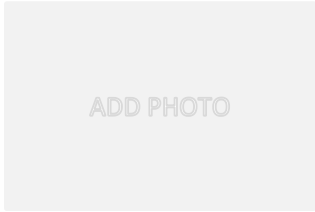
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC 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.	Design Review within 2 months and installation/modification within 4 months
				

2	Means of egress	Handrails were not provided on both sides of the Stair-1 and Stair-2 exit stairs on all floors.	Provide handrails on both sides of the exit stair. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.) 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.	Within 1 month
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3	Fire Rated Construction	Elevator shafts are directly open into the exit enclosure which is a violation of RSC Technical Guidelines (Standard)-6.14.3. Location: Stair-2	An exit stairway shall not be built around a lift shaft unless both are located in a smoke-proof enclosure and made of a material with a fire-resistance rating required for the type of construction of a smoke-proof enclosure. (As per 6.14.3 of RSC Technical Guidelines (Standard) V1.0) Ensure the lift shaft is enclosed by a minimum 2-hour fire-rated wall with a minimum 1.5-hr fire-rated protective openings. Recommended to follow RSC "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for remediation.	Within 3 months
 				
4	Means of egress	Guards were not provided at all open sides of the means of egress.	Provide guards at all open sides of means of egress that exceed 760 mm (30 in.) above the floor or finished ground below with a minimum height of 42 inches.	Within 1 month

		 		
5	Fire Rated Construction	Fabric storage room and chemical storage room discharge directly into exit stair enclosures without vestibules.	Openings from the exit enclosure to the storage room, shall be provided with a vestibule with fire-rated construction and openings. Provide a minimum 1-hr. fire-rated door on the exit stair side and a minimum 1 hr. fire-rated door on the store side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1 m and length 1.8 m.	Within 3 months
		 		

6	Means of Egress	Building did not have stair designation signs, occupant load signs and evacuation maps at required locations.	Provide stair designation signs, occupant load signs and evacuation maps at all required locations.	Within 1 month
7	Fire Rated Construction	The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction. Fire door installation was found ongoing during the inspection.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 1-hr fire-rated construction. Provide minimum 1-hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. 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 03 months
 				
8	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed at several locations.	Provide illuminated directional signs 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

									
9	Egress Lighting	Exit signs were not provided at every required exit also some exit signs were not illuminated properly.	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					
									

10	Means of Egress	Aisles marks were not provided at several locations throughout all floors.	Provide aisles with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 1 month
 				
11	Fire Rated Construction	The fire resistance ratings of the exterior walls of the building were not provided based on the fire separation distance where unprotected openings were observed.	Ensure the fire resistance ratings of the exterior walls as per Table 3.2.2 of BNBC 2020. Seal/protect all unprotected openings to maintain the fire ratings.	Within 2 months
   				

12	Emergency Light	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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
 				
13	Means of egress	Adequate landings are not provided on both sides of doors used in the means of egress. Doors swing out over stairs. Location: exit door-2 of Chemical Storage on the ground floor.	Provide landing on both sides of the exit door for a distance not less than the width of the widest door leaf.	Within 2 months

		 21 Apr 2024 12:16:14 pm	 21 Apr 2024 12:02:49 pm	
14	Means of egress	The maximum riser height exceeded 215 mm (8.5 in.) for the ground floor stairs discharging on roads. Also the height difference between the bottom riser and adjacent riser was found to be more than 51 mm (2 in.). More over intermediate riser height difference exceeded more than 25 mm (1 in.).	Stair treads shall be of nominal uniformity. The maximum riser height for any stair shall be 215 mm (8.5 in.). Any riser height at the top or bottom step in a stair run exceeding more than 51 mm (2 in.) difference from the adjacent riser height shall be modified to be within this tolerance. Any riser height or tread depth not at the top or bottom step in a stair run exceeding more than 25 mm (1 in.) difference from the adjacent step shall be modified to be within this tolerance.	Within 2 months

 				
15	Means of Egress	Parapets or guards were not provided on the roof top.	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 1 month
 				
16	ITM of Fire Alarm & Detection System (FADS)	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with the NFPA 72 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

17	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 1 month
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