

INITIAL FIRE SAFETY INSPECTION REPORT

Lalmai Footwear Ltd. (Extension)

RSC ID: 25765

Vill.: Dhanpur, P.O: Chapapur, Dist.: Comilla
23.432672, 91.215042

Other Factories: Lalmai Footwear Ltd. ID 9302



Inspected By: Ahammad Kabir

Date: 25 September 2024

Fire Safety Inspection Report

Factory Name: Lalmai Footwear Ltd. (Extension)

Introduction:

Lalmai Footwear Ltd. (Extension) complex was surveyed for fire safety on 25 September 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

SI No	Building Name & Description	Construction History	Construction
1	Building-4: Worker's Dining & Rest House - Four storied (G+3) RCC structure - Total Approx Area: 22,500 sqft	Construction Start: April-2022 Construction End: May-2024 Date of first Operation: Jun-2024 Building Approval: No approved drawing was available	New
2	Shed-07: Braiding Shed, Cycle Shed & Shop Shed Single storied shed. Total Approx Area: 14000 sqft	Construction Start: September-2022 Construction End: Jun-2024 Date of first Operation: September-2024 Building Approval: No approved drawing was available	New
3	Shed-14: Wastage Goods Stack Area Single storied shed. Total Approx Area: 1500 sqft	Construction Start: August-2023 Construction End: Nov-2023 Date of first Operation: Dec-2023 Building Approval: No approved drawing was available	New
4	Shed-18: Kitchen & Store Single Storied RCC building. Total Approx Area: 1200 sqft	Construction Start: May-2024 Construction End: Jun-2024 Date of first Operation: July-2024 Building Approval: No approved drawing was available	New

Factory Address: Vill.: Dhanpur, P.O: Chapapur, Dist.: Comilla

Points of contact:

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2. Name: Md. Mashiur Rahman

Designation: Deputy Manager (HR & Compliance)

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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 Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction. Location: Shed 07	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m2 (250 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2).	Within 3 months



2	Fire Rated Construction	Through penetration at cable riser and PVC penetrations are not sealed with fire rated separation. Location: Building-4 (all floors)	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire rated listed/certified materials. The installation of such fire rated materials shall be following certified design.	Within 3 months
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3	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Building-4 (all floors), Shed-7.	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. Emergency lights shall be marked with proper signage.	Within 3 months



4	Inspection Testing and Maintenance of Egress 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 3 months
5	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 3 months

6	Fire Alarm & Detection System (FADS)	Fire detection system installation requires detailed review to confirm compliance with NFPA72 and in accordance with The RSC Technical Guidelines (Standard).	Submit design, drawings and other relevant documentation to the RSC for review. Replace the fire detection system with a new, listed addressable fire detection system in accordance with NFPA 72.	Design review within 2 months and installation or modification (If require) within 4 months after review of design.
 				
7	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with 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 completed).

8	Fire Protection System (Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22, & 24 or as per RSC Technical guidelines (Standard).	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install/ modify the standpipe system throughout the building in accordance with review comment, RSC Technical Guidelines and NFPA 14, 20, 22 and 24. 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 or modification (If require) within 4 months after review of design.
 				
9	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing, and maintenance for the Fire pump is not in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Inspect, test and maintain the fire pump & water system and keep written records on-site, in accordance with NFPA 25 or as per RSC Technical Guidelines (Standard).	Within 1 month after installation.

10	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Within 1 month after installation.
11	Means of egress	The exit stair enclosures are not properly fire separated from work areas and other spaces on each floor by fire-rated construction. Location: Building - 4 (Both stairs)	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr. fire resistance rating for buildings 4 or more stories. Provide 1 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated construction barrier for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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



12	Means of egress	Handrails are not provided on both sides of exit stairs. Location: Building-4 (all stairs)	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
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13	Means of egress	Occupiable roof is not provided with an adequate parapet / guard rail. Location: Building-4	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 months
 				

14	Means of egress	Aisle are not properly marked. Location: Shed 07	Aisles shall be properly marked and provided with a minimum unobstructed clear- width of 0.9m (36 in).	Within 3 months
				
15	Means of egress	The width of the exit stair is less than 1.5 m (60 in.). Location: Building-4 (West exit stair)	Provide minimum 1.5m (60 in) unobstructed and clear width of exit stairs as per RSC Technical Guidelines (Standard) V1 - 6.5.6.2.1.	Within 3 months

				
16	Means of egress	Egress doors & gates on the floor with non-compliant locking features are provided at exit. Location: Building-4, 3rd floor.	Remove non-compliant locking features from all egress door & gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 & RSC Technical Guidelines (Standard) V1- 6.8.2	Immediately
				

17	Means of egress	Exit sign not provided at exit. Locations: Building-4 and Shed-7.	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
 				
18	Means of egress	Fire evacuation map is not posted at the entrance of all exit stairs. Location: Building-4 (all floors)	Fire evacuation maps shall be posted at the entrance of all exit stair.	Within 3 months

				
19	Means of egress	Building did not have stair designation signs and occupant load signs at required locations on all floor. Location: Building-4 (all floors)	Provide stair designation signs and occupant load signs at required locations.	Within 1 month
				