

INITIAL FIRE SAFETY INSPECTION REPORT

Mashiyat Apparel Ltd.

RSC ID: 26392

Holding no: 33/1, Durgapur, Mondolpara, Zirabo, Ashulia, Dhaka-1341, Bangladesh

GPS: 23.903205373444983, 90.30286865581826

Other Factories: None



Inspected By: Nainin Nowrose

Date: 12-Aug-2025

Fire Safety Inspection Report

Mashiyat Apparel Ltd.

Introduction:

Mashiyat Apparel Ltd. complex was surveyed for fire safety on **12-Aug-2025** 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						
There are total 3 structures covered under this RSC ID 26392. The buildings are as below:						
SL No	Building Name & Type	Building Construction Period	Approval Date & Authority	Occupied	Area (Sq.ft.)	Construction Category
1	Admin Building 2 storied (proposed 3 storied) RCC Building (G+1)	Jul-2023 to Jan-2024	28-Dec-2017 (Ashulia Union Parishod)	May-2025	3,100	Interim
2	Production Shed Single storied Steel structure	Jul-2023 to Jan-2024		May-2024	21,252	Interim
3	Utility Building Single storied RCC Building	Aug-2023 to Jan-2024		May-2025	1,600	Interim

Factory Address: Holding no: 33/1, Durgapur, Mondolpara, Zirabo, Ashulia, Dhaka-1341, Bangladesh

Points of contact:

Md. Rayhan
Managing Director
01724-118115
rayhan.m@apparel360.com.bd



Md. Nahid Mia
Manager (HR, Admin & Compliance)
01853-179641
Mail: nahid.hr@mashiyatapparel.com.bd



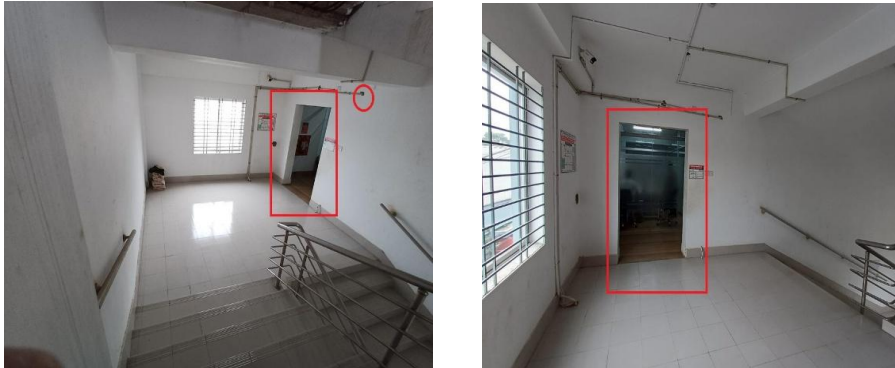
Findings & Recommendations :

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 review.

Table-1: All structures in this ID-26392.

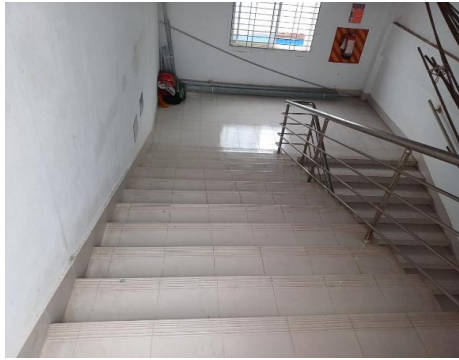
SI No.	Category	Findings	Required Action	Remediation Time Frame
--------	----------	----------	-----------------	------------------------

F-01	Means of Egress	<p>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.</p> <p>Location: 1st floor of Admin Building.</p>	<p>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 fire rated barrier construction 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 in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>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.</p> <p>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.</p> <p>Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).</p>	Within 3 months
------	-----------------	--	--	-----------------

				
F-02	Means of Egress	<p>Electrical DB and cable is located inside exit stair enclosure.</p> <p>Location: South east stair enclosure at ground floor of Admin Building.</p>	<p>Remove and re-locate all Electrical panels from exit stair enclosures.</p> <p>Or,</p> <p>Provide fire separation with stair enclosure in accordance with section 6.3.1 of RSC Technical Guidelines (Standard)¹ V1.0.</p>	Within 3 months


				
F-03	Means of Egress	<p>Parapets or guards provided (29 inch) in occupiable roof is found less than 42 inch.</p> <p>Location: Admin Building.</p>	<p>Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.12.</p>	<p>Within 3 months</p>
				

F-04	Means of Egress	<p>Handrails are not provided on both sides of exit stairs on roof top stair. Having handrails on one side of said staircase, may pose as a falling hazard during evacuation.</p> <p>Locations: South east exit stair of Admin Building.</p>	<p>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.).</p> <p>Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.12.</p>	Within 3 months
------	-----------------	---	--	-----------------



F-05	Means of Egress	<p>A single means of exit has been provided on Admin building (interim construction).</p> <p>Location: 1st floor of Admin building. Occupant Load: 16 Travel distance: 55 ft</p>	<p>The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by RSC Technical Guideline (Standard), section 6.6.2.</p> <p>Provide additional exit and ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6.</p>	Within 3 months
------	-----------------	---	---	-----------------




F-06	Means of Egress	<p>Building does not have stair/floor designation signs at required locations.</p> <p>Location: Admin Building.</p>	<p>Provide stair/floor designation 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 in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.9.3.</p>	Within 1 month
				
F-07	Means of Egress	<p>Building does not have updated occupant load signs at required locations on all floors.</p> <p>Location: Production shed & Admin Building.</p>	<p>Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.4.4 .</p>	Within 1 month

F-08	Fire Rated Construction	<p>Dining (E4) area is not separated from medical (D1) due to unsealed penetration. Additionally, single exit has been provided in dining.</p> <p>Location: Ground floor, Admin building.</p>	<p>Separate the dining area from other occupancies with 3-hr fire rated construction, provide minimum 3-hr. rated doors for the openings and seal the unprotected penetrations.</p> <p>Provide required exits that lead directly to the street or exit stairwell or leading to a corridor or open space.</p>	Within 3 months
------	-------------------------	--	--	-----------------

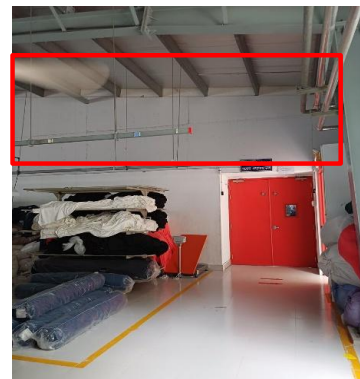




F-09	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed.</p> <p>Location: Daycare, Ground floor, Admin Building.</p> <p>Non-compliance reason: Plastic plumbing pipe.</p>	<p>Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 2-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with section 4.7 of RSC Technical Guideline (Standard)</p> <p>Or,</p> <p>Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.</p>	Within 3 months
------	-------------------------	--	--	-----------------


				
F-10	Fire Rated Construction	<p>The required fire separation distance for north, south & east side of Production shed and east side of Admin building does not comply with the requirements of BNBC 2006. Unprotected openings were found within 12 ft 7 inch in north & south side between Production shed & boundary wall and in east side 14 ft 6 inch between Admin Building & Production shed. Also, unprotected opening was found within 4 ft 4 inch in east side between Admin Building & boundary wall.</p> <p>Location: East side of Admin Building and north, south & east side of Production shed.</p>	<p>The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3.</p>	Within 6 months



F-11	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas.</p> <p>Location: Bonded warehouse, Finished goods store & accessories store at Production shed.</p> <p>Non-compliance reason: Unprotected openings & penetrations, non rated board partition.</p>	<p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).</p>	Within 3 months
------	-------------------------	--	---	-----------------



F-12	Fire Rated Construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.</p> <p>Location: Production shed.</p>	<p>Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur.</p> <p>or,</p> <p>If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater.</p> <p>or,</p> <p>Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 months
<div style="display: flex; justify-content: space-around;">   </div>				

F-13	Fire Rated Construction	<p>Storages were found underneath the cutting tables.</p> <p>Location: Production shed.</p>	<p>Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with 3.4.2.1.6 or ,</p> <p>Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles.</p>	Within 3 months
				
F-14	Means of Egress	<p>Liquefied or compressed gas cylinders were located within the factory without adequate fire separation.</p> <p>Location: In front of Utility building.</p>	<p>Remove the liquefied or compressed flammable gas cylinders. The storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building as per section 3.4.2.1.11 of RSC Technical Guidelines (Standard)¹ V1.0.</p> <p>Or,</p> <p>Factory shall follow the requirements RSC Published "SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN FACTORY PREMISES" to use or store liquefied or compressed flammable gas cylinders in the factory premises.</p>	Within 3 months



F-15	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the exit sign and emergency lighting system were not in accordance with the RSC Technical Guidelines (Standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) ¹ V1.0. Keep written records on-site.	Within 1 month
F-16	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA-72 and RSC Technical Guidelines (Standard). Location: All structures under this RSC ID 26392.	Submit the fire alarm and detection system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building 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 within 2 month and modification/ installation with 4 months



F-17	Inspection, Testing & Maintenance (Fire)	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 RSC Technical Guidelines (Standard) ¹ V1.0.s.	Within 1 month (after installation)
F-18	Inspection, Testing & Maintenance (Fire)	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 RSC Technical Guidelines (Standard).	Within 1 month