

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Advanced Composite Textile Limited (Extension)

RSC ID: 26033

Factory Address: Kashor, Master Bari, Bhaluka, Mymensingh.

Other Factories: Advanced Composite Textile Limited (ID-11740)



Inspected By: Mahub Alam Sami

Date: 18 March 2025

Fire Safety Inspection Report

Introduction:

Advanced Composite Textile Limited (Extension) complex was surveyed for fire safety on **18 March 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 the 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 names with description:

01. Fire Pump Room (Building-5): The Fire Pump Room is a single-storied RCC Building whose construction started in Jan 2017 and ended in Jan 2019. It is an Interim Construction and the area is 49.05 sqm which is being used for the factory's fire fighting pumps.

02. Fire Control Room (Building-6): The Fire Control Room is a single-storied RCC Building whose construction started in Jan 2019 and ended in Jan 2020. It is an Interim Construction and the area is 18.58 sqm.

03. Security Room/ Dormitory & RMS Room (Building-7): The Security Room/ Dormitory & RMS Room is a single-storied RCC Building whose construction started in Jan 2009 and ended in Dec 2009. It is an Existing Construction and the area is 160.72 sqm.

04. Finished Cartoon Godown Shed (Shed-3): The Finished Cartoon Godown Shed is a single-storied shed Building whose construction started in Jan 2020 and ended in Jan 2021. This shed is an Interim Construction and the area is 935.53 sqm. The Finished Cartoon Godown Shed is being used for Wastage and Cartoon storage purposes of the factory. The measured pick height of the shed from the road level was found 14 feet 06 inches. The Finished Cartoon Godown Shed has 03 independent exits but 02 were found operational which are remotely located. However, CPT and travel distance were found exceeding the limits inside the shed.

05. Dining & Canteen Shed (Shed-8): The Dining & Canteen Shed is a single-storied shed Building whose construction started in Jan 2018 and ended in Jan 2019. It is an Interim Construction and the area is 245.26 sqm. The Dining & Canteen Shed has 02 independent exits remotely located discharging the occupants directly open to the sky. The reported capacity of the Dining & Canteen Shed is 350 persons (E3). The measured pick height of the shed from the road level was found 13 feet 03 inches.

Note: The structures covered under this RSC ID (26033) have been rented to SM Sourcing since 1st July 2024 and none of the structures have the approved plan from the local authority.


Factory Address: Factory Address: Kashor, Master Bari, Bhaluka, Mymensingh.

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:


| SI No. | Category | Findings | Required Action | Remediation Time Frame |
|--------|-----------------|---|---|------------------------|
| F-1 | Means of Egress | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All Buildings. | 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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard) ¹ V1.0 Section 10.12.2. | Within 1 month |

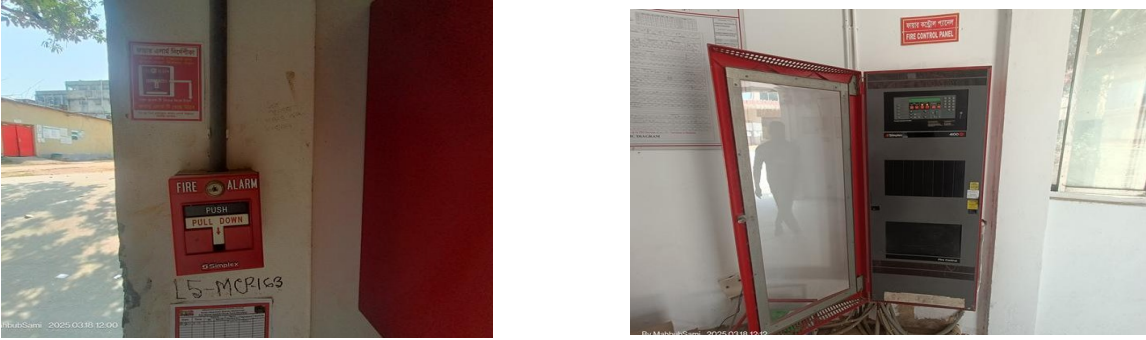
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| F-2 | Means of Egress | <p>Directional signs are not provided where the direction of the path of travel to an exit has changed.</p> <p>Location: All Buildings.</p> | <p>Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.3.</p> | Within 1 month |
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| F-3 | Means of Egress | <p>Exit signs are not provided at all the exits.</p> <p>Location: All Buildings.</p> | <p>Lighted exit signs shall be placed at the entrance to an exit. Additional directional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.</p> <p>Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated at all times. Exit Sign shall provide in accordance with RSC Technical Guidelines (Standard)¹ V1.0 Section 6.11.</p> | Within 1 month |
| F-4 | Means of Egress | <p>Fire evacuation maps are not posted at the entrance of all exits.</p> <p>Location: Finished cartoon Godown and Dining & Canteen.</p> | <p>Fire evacuation maps shall be posted at the entrance to each exit stair.</p> | Within 1 month |

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| F-5 | Means of Egress | <p>Travel distance to reach an exit exceeds the values listed in RSC Technical Guidelines (Standard), during the inspection, it was more than 150 ft.</p> <p>Location: Finished Cartoon Godown Shed.</p> | <p>Reconfigure the egress arrangement or provide additional exits so that the travel distance shall not exceed 45 m.</p> <p>or,</p> <p>Provide a standpipe system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire detection system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 60 m (200 ft).</p> <p>or,</p> <p>Provide a complete automatic sprinkler system in accordance with the RSC Technical Guidelines (Standard) along with the automatic fire alarm system, and portable fire extinguishers to increase the travel distance limitations for G2 (RMG factories) to 122 m (400 ft).</p> | Within 3 months |
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|---|-----------------|---|---|-----------------|
| F-6 | Means of Egress | <p>The common path of egress travel exceeds 30m. Occupancy/Process: Storage (H2). Available Common Path: 50m (166 feet).</p> <p>Location: Finished cartoon Godown.</p> | <p>Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30m.</p> <p>The common path of egress travel shall not exceed 23 m (75 ft). Where the building is provided with a complete automatic sprinkler system, the common path of egress travel shall not exceed 30 m (100 ft). The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft). The common path of egress travel for Group J (high hazard) occupancies shall not exceed 8 m (25 ft).</p> <p>Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.</p> | Within 3 months |
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| F-7 | Means of Egress | <p>Width of aisles is less than 0.9m (36-in.).</p> <p>Location: Finished cartoon Godown.</p> | <p>Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.) in accordance with section 6.5.1 of RSC Technical Guidelines (Standard)¹ V1.0.</p> | Within 3 months |
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| F-8 | Fire Alarm & Detection System (FADS) | The factory has installed a Fire alarm and detection system which requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). | Submit the proposed design (along with the existing ID-11740) of the Addressable fire alarm system to RSC in accordance with NFPA 72. | Design within 2 months and installation within 3 months |
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| F-9 | Fire Alarm & Detection System (ITM) | Inspection, testing, and maintenance for the fire detection system are not found in accordance with NFPA 72. | Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72. | Within 1 month after installation. |
| F-10 | Emergency Lighting (ITM) | Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC standard. | Inspect, test and maintain the emergency lighting system in the accordance with NFPA/RSC. Keep written records on-site. | Within 1 month |
| F-11 | Fire Protection System | Inspection, testing, and maintenance of portable fire extinguishers are not found 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. |