

# INITIAL FIRE SAFETY INSPECTION REPORT

## Rich Cotton Apparels Limited

RSC ID: 25738

Sardaganj, Kashimpur, Gazipur Sadar, Gazipur, Bangladesh  
23.982162, 90.294117

Other Factories: N/A



Inspected By: Ahammad Kabir & Al-Shahriar

Date: 29/04/2024

# Fire Safety Inspection Report

Factory Name: Rich Cotton Apparels Limited

## Introduction:

**Rich Cotton Apparels Limited** complex was surveyed for fire safety on 29 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. **Factory Shed Building**
2. **Utility Building**
3. **Facility Shed**
4. **Office Shed**
5. **Guard Room**
6. **Wastage shed**

**Factory Address:** Sardaganj, Kashimpur, Gazipur Sadar, Gazipur, Bangladesh

**Points of contact:**

1. Name: Md. Anwarul Islam Raton  
Designation: Director  
Contact No: 01716573448  
Email: raton@richcottonapparels.net

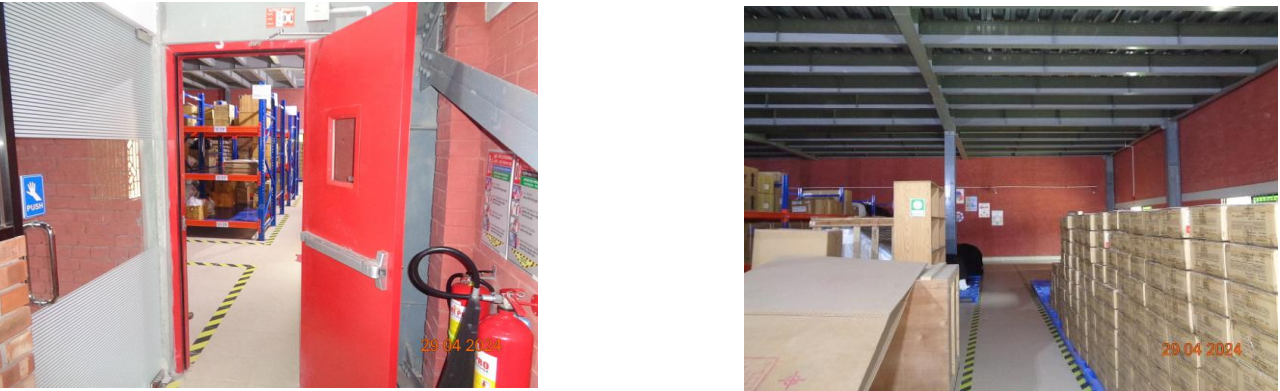
2. Name: Shahariar  
Designation: AGM  
Contact No: 01329640750  
Email: rcalhr1@richcottonapparels.net





## 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	Rooms used for combustible storage are not separated by fire rated construction. Location: Ground floor of main factory shed.	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 construction barrier.	Within 3 months
				

2	Fire Rated Construction	<p>Fire doors have been installed whose fire rating certificates are required to be furnished.</p> <p>Doors are fire rated reported by management where credibility shall be ensured (credible 3rd party certificates and certification tag/mark).</p> <p>Location: All buildings and sheds</p>	<p>Ensure the required fire rating for all the doors. Collect the technical datasheet, certificate &amp; keep on site for review</p>	<p>Within 3 months</p>
<div style="display: flex; justify-content: space-around; align-items: center;">   </div>				
3	Fire Rated Construction	<p>The main structural elements of factory buildings are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. Building height is more than 11 meters.</p> <p>Location: Factory Shed Building</p>	<p>For new construction, the building shall be Group 1 or Group 2 construction as required in BNBC 2020 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2020-Table 3.2.4, 3.1.7 and 3.3.1</p> <p>Submit the design, datasheet, certificate, and the design-philosophy to the RSC for review prior to install the passive fire protection system.</p>	<p>Within 6 months</p>

				
4	Fire Rated Construction	<p>The main structural element of the shed is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Wastage shed.</p>	<p>The Interim constructed building shall be type-1 or type-2. Chemical store also shall be type-1 construction. Provide required fire rating on the structural elements by following Table-3.2.4, 3.1.9 &amp; Table 4.4.1 of the RSC Technical Guidelines (StandardV1.0) or Table 3.3.1 of BNBC-2006. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.</p>	Within 6 months
				

5	Fire Rated Construction	<p>The exit stair enclosures are not properly fire separated from work areas and other spaces on each floor by fire-rated construction. Location: Factory Shed 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 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.</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>	Within 3 months
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6	Means of egress	<p>The width of the exit stair is less than 1.5 m (60 in). Location: Stair-2, stair-3 of the factory Shed building</p>	<p>In new and interim construction and constructed stairs post 24 November 2013, stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies and 2.0 m (79 in.) for all assembly occupancies. For assembly use areas provided for prayer halls, dining halls and like areas that are for integral use by the factory workers, the minimum width for the primary occupancy use of the building shall be permitted to be used.</p>	Within 3 months
				
7	Means of egress	<p>The width of egress aisles is less than 36-in. Location: Facility shed; dining section.</p>	Provide minimum aisle widths of 36-in.	Within 1 month



8	Means of egress	<p>Egress door does not swing in the direction of egress travel.</p> <p>Location: Office Shed &amp; Factory Shed Building, ground floor store room</p>	<p>Modify swing direction of egress doors to the direction of egress travel. Doors serving an occupant load of more than 50 shall swing in the direction (out-ward) of egress travel .</p>	Within 3 months
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9	Means of egress	The maximum travel distance at the office shed was found more than 75 feet with single exit.	The travel distance at the office shed is required to be within 75 feet where single exit is provided or additional exit shall be provided in accordance with The RSC Technical Guidelines (Standard).	Within 1 month
10	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Emergency lights were not marked at several locations e.g. ground floor of the factory shed building, office shed and facility shed.	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
11	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
12	Exit Signage	Directional exit sign was not found enough in the direction for the path of travel.	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.	Within 1 month



13	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
14	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 within 1 month and installation within 3 months
15	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).