

# INITIAL FIRE SAFETY INSPECTION REPORT

## Pacific Cotton Ltd (Extension)

RSC ID: 25767

Vill: Amtoli Union, 10 No. Habirbari, P.S: Valuka, Mymensingh-2240.  
24.314838, 90.384432

Other Factories: Cotton Dyeing & Finishing Mills Ltd ID 9286, Pacific Cotton Ltd ID 23661, Cotton Dyeing & Finishing Mills Ltd.- Central Store shed ID 24301



Inspected By: Ahammad Kabir

Date: 24 October 2024

# Fire Safety Inspection Report

Factory Name: Pacific Cotton Ltd (Extension)

## Introduction:

**Pacific Cotton Ltd (Extension)** complex was surveyed for fire safety on 24 October 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     | <b>Building-03</b><br>Two storied (G+1) RCC structure<br>Total Approx Area: 14,300 sqft          | Construction Start: Feb-2022<br>Construction End: May-2023<br>Date of first Operation: Dec-2023<br>Building Approval: August 2018. Mymensingh PWD Division.     | Interim      |
| 2     | <b>Dormitory Building</b><br>Two storied (G+1) RCC structure<br>Total Approx Area: 2517 sqft     | Construction Start: Jan-2018<br>Construction End: Jun-2019<br>Date of first Operation: Jul-2019<br>Building Approval: August 2018. Mymensingh PWD Division.     | Interim      |
| 3     | <b>3 MLD ETP Building</b><br>Two storied (G+1) RCC structure<br>Total Approx Area: 12600 sqft    | Construction Start: Jan-2008<br>Construction End: Dec-2008<br>Date of first Operation: Dec-2008<br>Building Approval: August 2018. Mymensingh PWD Division.     | Existing     |
| 4     | <b>Maintenance Office with Work Shop</b><br>Single storied shed.<br>Total Approx Area: 2528 sqft | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing     |
| 5     | <b>Childcare</b><br>Single storied shed.<br>Total Approx Area: 1700 sqft                         | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing     |

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| 6  | <b>Wastage Store</b><br>Single storied shed.<br>Total Approx Area: 1980 sqft   | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing |
| 7  | <b>Staff Dining</b><br>Single storied shed.<br>Total Approx Area: 946 sqft     | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing |
| 8  | <b>RMS Room</b><br>Single storied RCC building.<br>Total Approx Area: 193 sqft | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing |
| 9  | <b>WTP</b><br>Single Storied Steel.<br>Total Approx Area: 2173 sqft            | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing |
| 10 | <b>Gate House</b><br>Single Storied RCC<br>Total Approx Area: 2173 sqft        | Construction Start: Jan-2008<br>Construction End: April-2008<br>Date of first Operation: April-2008<br>Building Approval: August 2018. Mymensingh PWD Division. | Existing |

**Factory Address:** Vill: Amtoli Union, 10 No. Habirbari, P.S: Valuka, Mymensingh-2240.

**Points of contact:**

1. Name: M. M. Humaun Kabir

Designation: Assistant Vice President  
(Admin, HR & Compliance)

Contact No: 01711644832

Email: humaun@cottongroup.com.bd

2. Name: Engr. Md. Hossen Khan

Designation: Senior Assistant Vice President  
(Maintenance Department)

Contact No: 01755633847

Email: hossen@cottongroup.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 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 (due to excess gap under the fire door). | 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. | Within 3 months        |



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| 2 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: building 03, workshop, wastage storage. | 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 |
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| 3 | 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).<br>Keep written records on-site.                                        | Within 3 months                                                                        |
| 4 | Fire Alarm & Detection System (FADS)                  | The Fire Alarm System is not available.                                                                                                    | Submit the proposed design of Addressable fire alarm system to RSC in accordance with NFPA 72. Installation shall be as per the reviewed design with a listed Addressable Fire Alarm System. | Design review within 2 months and installation within 4 months after review of design. |

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| 5 | Fire Alarm & Detection System (FADS) | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification to the occupant. | Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72. | Design review within 2 months and installation within 4 months after review of design. |
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| 6 | 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). |
| 7 | Means of egress                                                             | The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction at building 03 and dormitory building. | <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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| 8 | Fire Rated Construction | Storage discharges directly into the exit stair discharge. Location: Building 03 (west stair) | Openings from exit enclosure to storage room, generator and transformer spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. | Within 3 months |
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| 9 | Means of egress | Handrails are not provided on both sides of exit stairs. Location: Building-3 (all stairs), ETP. | 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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| 10 | Means of egress | Occupiable roof is not provided with an adequate parapet / guard rail. Location: ETP building, dormitory building | <p>All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 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.).</p> | Within 3 months |
|----|-----------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|



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| 11 | Means of egress | Exit stair door is swing over the stair landing area in the direction of egress travel.<br>Location : Dormitory building. | Modify the egress door to swing in the direction of egress travel in a way that it does not swing over stair landing and does not reduce the exit width/interrupt the egress path. | Within 3 months |
|----|-----------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

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| 12                                                                                 | Means of egress | Exit sign not provided at exit. Location: Building-3 (all exits on the 1st floor) | <p>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.</p> | Within 1 month |



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| 13 | Egress Lighting | Directional signs are not provided where direction of the path of travel to an exit has changed.<br>Location: Building 03 (all floors)    | 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 |
| 14 | Means of egress | Building did not have stair designation signs and occupant load signs at required locations on all floors. Location: Building 03 and ETP. | Provide stair designation signs and occupant load signs at required locations.                                                                               | Within 1 month |

