

# INITIAL FIRE SAFETY INSPECTION REPORT

**Consumer Knitex Limited (CMT Bangladesh) (Extension)**

**RSC ID: 26007**

Latitude: 24.368265, Longitude: 90.375102.

**Address: Dhamsur, Bhaluka, Mymensingh-2240**

Other Factories: Consumer Knitex Limited (CMT Bangladesh)(ID:9404)



**Inspected By: Mohammad Anayet Hossain**

**Date: 23-February-2025**

# Fire Safety Inspection Report

## Consumer Knitex Limited (CMT Bangladesh) (Extension)(ID-26007)

### Introduction:

**Consumer Knitex Limited (CMT Bangladesh) (Extension)** complex was surveyed for fire safety on **23-Feb-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 6 structures covered under this RSC ID 26007. All the six structures are ancillary. The buildings are as below:

SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	Building -05 (Security dormitory).	Dec-2014 to Mar-2015	March-2015 (LGED- Bhaluka )	Mar-2015	Two storied (G+1) RCC Building with Steel Roof Shed	Interim
2	Shed -04 ( Knitting production 2)	Feb-2015 to Jun-2015	July-2015 (LGED- Bhaluka )	Jul-2015	Single Storied Steel Shed	Interim
3	Shed -05 (Knitting warehouse)	Feb-2015 to Jun-2015	July-2015 (LGED- Bhaluka )	Jul-2015	Single Storied Steel Shed	Interim
4	Shed -07 (Empty Chemical drum store)	Jan-2017 to Feb-2017	March-2017 (LGED- Bhaluka )	Mar-2017	Single Storied Steel Shed	Interim
5	Shed -09 (Wastage shed)	Jan-2017 to Feb-2017	March-2017 (LGED- Bhaluka )	Mar-2017	Single Storied Steel Shed	Interim
6	Building -11 (REB Sub-station)	Mar-2020 to Sep-2020	October-2020 (LGED- Bhaluka )	Oct-2020	Single Storied RCC Building	Interim

**Factory Address: Dhamsur, Bhaluka, Mymensingh-2240, Bangladesh.**

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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 review.

**Table-1: All structures under this ID.**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas.  Location: Shed -05 (Knitting warehouse).	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).	Within 3 months
				

F-02	Fire Rated Construction	<p>Chemical storage (Group J-Hazardous occupancy) area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings.</p> <p>Location: Shed -05 (Knitting warehouse).</p>	<p>Provide a 4-hour fire-rated construction barrier to separate the chemical store from the surrounding production/combustible storage areas. The 4-hour fire-resistive separation shall have no openings/ no unprotected openings therein and shall provide a fire resistance for at least four hour.</p> <p>Chemical stores shall comply with BNBC 2006, Part 3, Section 2.13. or, Ensure exempt amounts of chemical are located on chemical stores with other occupancy as per Table 3.2.7 (BNBC 2006) &amp; ensure fire separation with other occupancy considering nearly resemble occupancy.</p>	Within 3 months
<div style="display: flex; justify-content: space-around;">   </div>				

F-03	Fire Rated Construction	<p>The main structural element of the interim building which is non-rated construction and were found in exposed condition without any fire protection.</p> <p>Location: Shed -04 ( Knitting production 2), Shed -05 (Knitting warehouse), Shed -07 (Empty Chemical drum store) &amp; Shed -09 (Wastage shed).</p>	<p>As per RSC Technical Guideline and BNBC 2006, The Fire rating of the structure requires to be confirmed as per BNBC 2006. The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected non-combustible construction type) according to BNBC 2020. The construction type shall confirm to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1 (a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating requires, Consult a qualified fire protection engineer to achieve the require fire rating.</p>	Within 6 months
<div style="display: flex; justify-content: space-around;">   </div>				

F-04	Fire Rated Construction	<p>Fire Resistance Ratings of Exterior Walls do not maintaining considering the Fire Separation Distance.</p> <p>Location: All building &amp; 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>	<p>Within 6 months</p>
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F-05	Means of Egress	<p>Doors in a means of egress was found less than 1 m (39 in.).</p> <p>Location: Shed -04 ( Knitting production 2) and Shed -05 (Knitting warehouse).</p>	<p>Doors in a means of egress shall have a minimum width of 1 m (39 in.) as per RSC Technical Guideline (Standard) section of 6.5.6.</p>	<p>Within 3 months</p>
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F-06	Means of Egress	<p>The maximum travel distance exceeds the allowable limit (30 m for storage (H2) occupancy) which is not meet Section 6.13 of RSC Technical Guidelines (Standard) and BNBC 2006 Part 4 Section 3.15.1 requirement.</p> <p>Location: Shed -05 (Knitting warehouse).</p>	<p>Travel distance to reach an exit for interim and existing buildings shall not exceed the values listed in BNBC 2006 Part 4 Section 3.15.1 for storage (H) occupancy as per Section 6.13.1 of RSC Technical Guidelines (Standard).</p>	Within 3 months
F-07	Means of Egress	<p>Exit discharge path is less than 10 feet &amp; not separated from the building interior which is not in accordance with section 6.17.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Location: Shed -04 ( Knitting production 2) and Shed -05 (Knitting warehouse).</p>	<p>Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.</p> <p>Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 1-hr fire separation.</p>	Within 3 months



F-08	Means of Egress	<p>Dead-end aisle is exceed 50 ft in non-sprinklered area at the storage (H2) &amp; chemical (J2) occupancy.</p> <p>Location: Shed -04 ( Knitting production 2) and Shed -05 (Knitting warehouse).</p>	<p>Reconfigure the egress arrangement to reduce the maximum dead-end corridor to meet Table 6.13.3 of RSC Technical Guidelines (Standard).</p>	<p>Within 3 months</p>
F-09	Means of Egress	<p>Directional signs are not provided where direction of the path of travel to an exit has changed.</p> <p>Location: All building &amp; shed.</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.</p>	<p>Within 1 month</p>

F-10	Means of Egress	Exit sign not provided at exit. Location: All building & shed.	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
F-11	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All building & shed.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
F-12	Means of Egress	Building did not have occupant load signs at required locations. Location: All building & shed.	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.	Within 1 month
F-13	Means of Egress	Updated Fire evacuation map is not posted and updated at the entrance of all exit stair. Location: All building & shed.	Fire evacuation maps shall be posted at the entrance to each exit stair. Evacuation map shall reflect the actual floor condition.	Within 1 month

F-14	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) and keep written records on-site.	Within 1 month
F-15	Fire Alarm & Detection System (FADS)	An addressable fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).  Location: All building & shed.	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 Review within 2 months and installation/modification within 4 months.



F-16	Inspection, Testing & Maintenance (Fire)	<p>Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).</p> <p>Location : All building &amp; shed.</p>	<p>Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site.</p>	<p>Within 1 month (after installation)</p>
F-17	Inspection, Testing & Maintenance (Fire)	<p>Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.</p> <p>Location: All building &amp; shed.</p>	<p>Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and RSC Technical Guidelines (Standard).</p>	<p>Within 1 month</p>