

# INITIAL FIRE SAFETY INSPECTION REPORT

**Texworld Knitwear Limited**

**RSC ID: 26257**

**GPS Coordinates: 23°55'19.9"N, 90°08'24.1"E**

**Address: Sutipara, Kalampur, Dhamrai.**

**Other Factories: N/A**



**Inspected By: Md. Ferdaus Jaman**

**Date: 07-May-2025**

# Fire Safety Inspection Report

## Texworld Knitwear Limited

### Introduction:

**Texworld Knitwear Limited (ID: 26257)** complex was surveyed for fire safety on **07-May-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 5 structures are covered under this RSC ID 26257. The buildings are as below:

| SL No | Building Name                                                                    | Building Construction Period | Structure Drawing Permit Authority & Date | Occupied Date | Structure Type and Total Floor Area (meter square) | Construction Category |
|-------|----------------------------------------------------------------------------------|------------------------------|-------------------------------------------|---------------|----------------------------------------------------|-----------------------|
| 1     | Building-01 (Production Building) 2-Storeyed Pre-fabricated Steel Building (G+1) | July-2019 to Dec-2022        | Permit drawing doesn't found              | Jan-2023      | Steel (3206)                                       | Interim               |
| 2     | Building-02 (Utility Building) 2 Storeyed RCC Building (G+1)                     | Apr-2022 to Dec-2022         | Permit drawing doesn't found              | Jan-2023      | RCC (112.1)                                        | New                   |
| 3     | Building-03 (Dining Shed) Single Storeyed Tin Shed (G)                           | Apr-2022 to Dec-2022         | Permit drawing doesn't found              | Jan-2023      | Steel (41.29)                                      | New                   |
| 4     | Building-04 (Boiler Room) Single Storeyed RC Room                                | Apr-2022 to Dec-2022         | Permit drawing doesn't found              | Jan-2023      | RCC (8.14)                                         | New                   |
| 5     | Building-05 (Wastage Shed) Single Storeyed Wooden-tin Shed                       | Apr-2021 to Dec-2021         | Permit drawing doesn't found              | Jan-2023      | RCC (50.17)                                        | New                   |

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**Factory Address: Sutipara, Kalampur, Dhamrai.**

**Points of contact:**

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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:

| SI No. | Category        | Findings                                                                                                                                                                                                             | Required Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Remediation Time Frame |
|--------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| F-01   | Means of Egress | <p><b>Building-01:</b><br/>The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to non-functional fire-rated doors and unprotected opening.</p> | <p>Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for up to 3 storied.<br/>Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors and provide vestibules to avoid direct discharge from storage to exit stair enclosure. If fire rated 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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| F-02 | Fire Rated Construction | <p><b>Building-01:</b></p> <p>Room used for combustible storage is not properly separated by fire rated construction due to exposed of structural members of the storeroom.</p> <p><b>Location:</b> Bonded warehouse store on ground floor.</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 |
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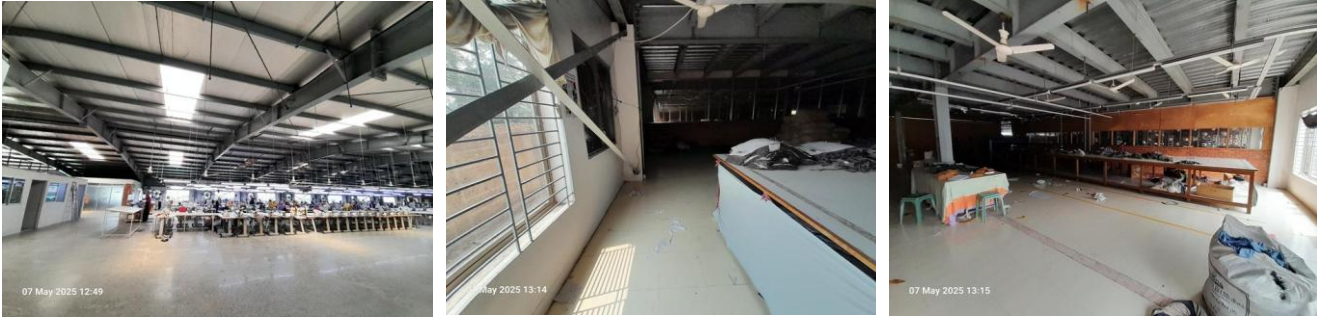

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| F-03                                                                                | Fire Rated Construction                                                           | <p align="center"><b>Building-01:</b></p> <p>Areas used for combustible storage are not separated by fire-rated construction.<br/> <b>Location:</b> Knitting Section on ground floor.</p> | <p>Provide defined storage areas and limit the storage arrangement as follows:<br/> Maximum height of 2.45 m and maximum area of 23 m<sup>2</sup> 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 align="center">or,</p> <p>If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft<sup>2</sup> (93 m<sup>2</sup>) 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 ft<sup>2</sup> (372 m<sup>2</sup>) of the sprinklered area, whichever is greater.</p> <p align="center">or,</p> <p>Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p> | Within 3 months                                                                       |
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| F-04 | Fire Rated Construction | <p><b>Building-01:</b><br/>The main structural element of the interim building is constructed by steel which is non-rated and were found in exposed condition without any fire protection.</p> | <p>The construction type is unprotected steel construction. 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> <p>Submit the design philosophy along with the required documents to RSC for review the required construction type.</p> <p>Once the design philosophy is reviewed, provide fire ratings of structural members.</p> | Within 6 months |
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| F-05 | Means of Egress | <p><b>Building-01:</b><br/>Sliding type doors have provided along means of egress routes on ground floor.</p>                                                                   | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type. Roll-down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p> | Within 1 Month |
|      |                 |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
| F-06 | Means of Egress | <p><b>Building-01:</b><br/>Aisles marks were found missing at several locations on the production floor.<br/><b>Location:</b> Cutting and knitting section on ground floor.</p> | Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.                                                                                                                                                                                                                                                                                                                                                                         | Within 1 month |


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| F-07 | Means of Egress | <p><b>Building-01:</b><br/>The building did not have stair designation signs and occupant load signs at the required locations.</p>                                                                      | <p>Stair designation signs shall be provided 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.</p> <p>The occupant load shall be posted for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.</p> | Within 1 month |
| F-08 | Egress Lighting | <p><b>Building-01:</b><br/>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br/><b>Location:</b> On both floors.</p> | <p>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.</p>                                                                                                    | Within 1 month |
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| F-09                                                                                 | Egress Lighting | <p align="center"><b>Building-01:</b></p> <p>The directional signs are not provided where there is a change in direction and where the continuation of the egress path is not obvious.</p> <p align="center"><b>Location:</b> On both floors.</p> | <p>Install 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>                                                                                                                                                                                                                                                                                                          | Within 1 month |
|    |                 |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |
| F-10                                                                                 | Egress Lighting | <p align="center"><b>Building-01:</b></p> <p>Exit signs are not provided at exit.</p> <p align="center"><b>Location:</b> Accessories store, Bonded warehouse store and MDB room on ground floor.</p>                                              | <p>Lighted exit signs shall be placed at 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)<sup>1</sup> V1.0 Section 6.11.</p> | Within 1 month |
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| F-11 | Inspection, Testing & Maintenance (Fire) | <b>For all structures:</b><br>Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The RSC Technical Guidelines (Standard).           | Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.                                                                                                                                                                                                                                                                                                                                                                                                                                         | Within 1 month                                                 |
| F-12 | Fire Alarm & Detection System (FADS)     | <b>For all 5 structures:</b><br>The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72 to meet section 5.7.3 of RSC Technical Guideline (Standard)<br><br>Submit the proposed fire alarm 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/ 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 within 5 months |
| F-13 | Inspection, Testing & Maintenance (Fire) | <b>For all 5 structures:</b><br>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 The RSC Technical Guidelines (Standard) and keep written records on-site.                                                                                                                                                                                                                                                                                                                                                                                                       | Within 1 month (after installation)                            |
| F-14 | Inspection, Testing & Maintenance (Fire) | <b>For all 5 structures:</b><br>Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.                                   | Fire drills shall be conducted according to section 13.2 of RSC Technical Guidelines (Standard) <sup>1</sup> V1.0. Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A.                                                                                                                                                                                                                                                                                                                                                                                  | Within 1 month                                                 |
| F-15 | Inspection, Testing & Maintenance (Fire) | <b>For all structures:</b><br>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                                                 |

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| F-16 | Means of Egress | <p align="center"><b>Building-02:</b></p> <p>The exterior exit stair is not separated from the building interior &amp; adjacent Building-5.</p> | <p>Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees (3.14 rad), the building exterior walls within 3050 mm (10 ft) horizontally of a nonrated wall or unprotected opening shall have a fire-resistance rating of not less than 1 hr. in accordance with section 6.3.1.3 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>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 |
|      |                 |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| F-17 | Means of Egress | <p align="center"><b>Building-02:</b></p> <p>Collapsible gate type doors have provided along means of egress exit on ground floor.</p>          | <p>Replace all collapsible/sliding/shutter type doors &amp; gates by the side-hinged swinging type doors in accordance with section 6.8.1 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>All doors in a means of egress shall be of the side-hinged swinging type. Roll-down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.</p>                                                                                                                                                                       | Within 1 Month  |

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| F-18 | Means of Egress | <p><b>Building-02:</b><br/>The factory has installed seven solar panels on the roof of the two-storied utility building (B-2). However, parapet walls or guardrails were found to be missing on the rooftop, and the stair used to access the rooftop is non-compliant.</p> | <p>Install adequate parapet walls or compliant guardrails around the perimeter of the rooftop to ensure fall protection and prevent potential accidents. Additionally, the existing stairway providing access to the rooftop should be upgraded or replaced to meet relevant safety and building code requirements as the RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. and BNBC 2020.</p> <p>Or,</p> <p>Remove the solar panels from the rooftop and restrict access to the area until proper safety measures.</p> | Within 1 week |
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| F-19                                                                               | Means of Egress | <b>Building-02:</b><br>Width of exit stair (stair width 40 inch) was found less than 1.5 m (60 in.).                        | In new and interim construction stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies. Also, assure handrails for both sides of the stair.                                                                                                                                                                                                                                         | Within 3 months |
|  |                 |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| F-20                                                                               | Means of Egress | <b>Building-02:</b><br>Fire evacuation maps are not posted at the entrance to each exit stair.                              | Fire evacuation maps shall be posted at the entrance to each exit stair.                                                                                                                                                                                                                                                                                                                                        | Within 1 month  |
| F-21                                                                               | Means of Egress | <b>Building-02:</b><br>The building did not have stair designation signs and occupant load signs at the required locations. | Stair designation signs shall be provided 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.<br><br>The occupant load shall be posted 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  |

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| F-22 | Means of Egress | <p align="center"><b>Building-04 and Gas Cylinder:</b></p> <p>Liquefied or compressed gas cylinders were located within the factory adjacent to boiler room without adequate fire separation.</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)<sup>1</sup> V1.0.</p> <p align="center">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> <p>LPG/CNG cylinders are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions:</p> <ol style="list-style-type: none"> <li>1. The storage building must be at least 3 meters away from any other building and boundaries.</li> <li>2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction.</li> <li>3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours.</li> <li>4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders.</li> <li>5. The building must be mechanically ventilated to control the accumulation of flammable vapors.</li> <li>6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/ guidance, CIOB and all other applicable agencies, codes and standards.</li> </ol> | Within 3 months |
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