

# INITIAL FIRE SAFETY INSPECTION REPORT

## Brandix Apparel Bangladesh Ltd. (Extension)

**RSC ID: 25760**

**Address: Plot 39-43, 46-49, EPZ Cumilla**

**Google Co-ordinate: 23.446153556173314, 91.1882367330632**

**Other Factories: Brandix Apparel Bangladesh Ltd. (RSC ID: 24452)**



**Inspected By: Hasanat Alamgir Abeer**

**Date: 03-March-2025**

### Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

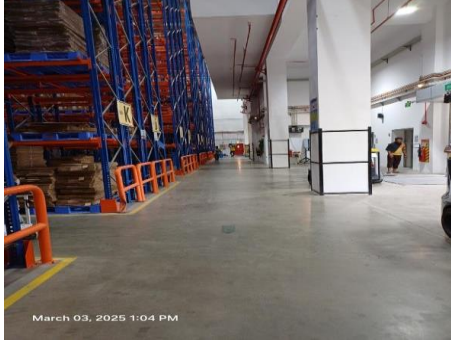
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

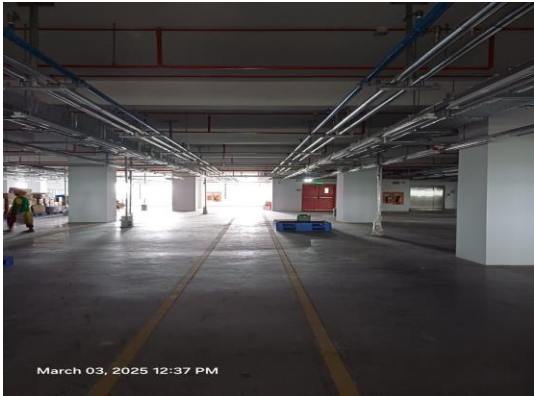
**Table-1: FG ware house & Finishing Building.**

| SI No.                                                                              | Category        | Findings                                                                                                                                                                                                                                                                                                                                                                                                                                    | Required Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Remediation Time Frame |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| F-1                                                                                 | Means of Egress | <p>The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction due to non functionality of fire door coordinators and the door has not been latched properly. Moreover, The datasheets &amp; certificates of installed fire-rated doors was not available during inspection to verify the credibility of the fire door.</p> <p><b>Location: FG ware house &amp; Finishing Building.</b></p> | <p>Provide minimum 1-hr rated fire wall and 1-hr fire rated doors for buildings that are 3 or fewer stories and a minimum of 2- hr. fire resistance rating and 1.5-hr fire rated doors for buildings 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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. Moreover, The factory shall keep credible datasheets and certificates of installed fire rated doors and their accessories at site to verify during the next inspection.</p> | Within 3 Months        |
|  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |

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| F-2                                                                                                                                                                                                                                                              | Means of Egress | <p>Storage room discharges directly into the exit stair enclosure.</p> <p><b>Location: 2nd Floor_FG ware house &amp; Finishing Building.</b></p> | <p>Openings from exit enclosure to storage 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 storage room side as per 6.14.3-RSC Technical Guidelines Standard V1.0. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width of a vestibule shall not be less than 1.1 m nor less than the width of the corridor leading to the vestibule. The minimum length of a vestibule in the direction of escape travel shall be 1.8 m.</p> | Within 3 Months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                 |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |

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| F-3                                                                                                                                                                                                                                         | Means of Egress | <p>Aisles has not been found at several locations of the building.</p> <p><b>Location ware house &amp; Finishing Building.</b></p> | <p>Aisles shall be provided at all required places and the minimum unobstructed clear-width of aisles is 0.9 m (36 in.)</p> | Within 1 Month |
| <div style="display: flex; justify-content: space-around;">   </div> |                 |                                                                                                                                    |                                                                                                                             |                |

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| F-4                                                                                                                                                                                                                                                              | Means of Egress | <p>Directional Exit signage was not provided along the path of egress where there is a change in the direction for the path of travel and the direction to an exit is not obvious.</p> <p><b>Location :FG ware house &amp; Finishing Building.</b></p> | <p>Provide directional exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.</p> | Within 3 Months |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                 |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                              |                 |

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| F-5                                                                                 | Means of Egress | Evacuation map and occupant load sign has not been found at required locations.<br><br><b>Location :FG ware house &amp; Finishing Building.</b>                                                      | Provide evacuation map and occupant load sign at required locations.                                                                                                                                                                                                                                         | Within 1 Month  |
| F-6                                                                                 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br><b>Location :FG ware house &amp; Finishing Building.</b> | 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. | Within 3 Months |
|  |                 |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |

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| F-7                                                                                | Fire Rated Construction | <p>Elevator shaft are directly open into floor areas without proper fire separation of the main building.</p> <p><b>Location :FG ware house &amp; Finishing Building.</b></p> | <p>Ensure minimum 2-hr listed/3rd part certified fire rated lift landing doors for elevator shafts otherwise close the area of the shaft with a 2-hr fire-rated construction barrier.</p> <p>Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for different solutions.</p> | Within 3 Months |
|  |                         |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                          |                 |
| F-8                                                                                | Fire Rated Construction | <p>A compressor has been found in floor areas without proper separation.</p> <p><b>Location :1st Floor_FG ware house &amp; Finishing Building.</b></p>                        | <p>Separate the compressor room by a minimum 2-hr fire rated construction (for high rise building)/ 1-hr fire rated construction (for low rise building). Seal and/or protected all openings to maintain fire separations.</p>                                                                                                                                           | Within 3 Months |

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| F-9                                                                                                                                                                                                                                        | Fire Alarm & Detection System (FADS) | Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards. | Design & Installation of Fire Alarm & Detection system shall be in accordance with RSC standard and NFPA 72. Submit as-built design, documents and calculations to RSC for review prior installation/modification. After installation/modification, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. | Design Review within 2 months and installation within 4 months. |
| <div style="display: flex; justify-content: space-around;">   </div> |                                      |                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |



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| F-10                                                                               | Fire Protection System(Standpipe System) | The existing building has an occupied floor greater than 10 meter (33 feet), therefore, standpipe system is required. Installation requires detailed review to confirm compliance with NFPA 14 and RSC standards. | Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14, 20, 22 and 24. 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 4 months. |
|  |                                          |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |
| F-11                                                                               | Fire Detection System ( ITM of FADS)     | Inspection, testing, and maintenance for the fire detection system is 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-12                                                                               | Fire Protection System(ITM of Standpipe) | Inspection, testing, and maintenance for the Standpipe system are not in accordance with NFPA 14 and 25 or as per RSC standard.                                                                                   | Inspect, test and maintain the standpipe system, and keep written records onsite, in accordance with NFPA 14 and 25 or as per RSC standard.                                                                                                                                                                                                                                     | Within 1 month after installation.                              |

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| F-13 | Inspection, testing, and maintenance of the Fire Pump (ITM). | Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20                      | Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.                               | Within 1 month after installation. |
| F-14 | Fire Protection System(ITM of Extinguishers)                 | 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 on- site, in accordance with NFPA 10 and RSC standards. | Within 1 Month after installation. |
| F-15 | Fire Protection System(ITM of Emergency Lighting System)     | Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC standard. | Inspect, test and maintain the emergency lighting system in the accordance with The RSC standard. Keep written records on-site.             | Within 1 Month after installation. |