

INITIAL FIRE SAFETY INSPECTION REPORT

Brandix Apparel Bangladesh Ltd

RSC ID: 24452

ADDRESS: Plot 39-43, 46-49, EPZ Cumilla

Google Coordinate: 23°26'47.1"N 91°11'17.8"E

Other Factories:



Inspected By: Md. Anisuzzaman

Date: 17-July-2022

Fire Safety Inspection Report

Factory Name: Brandix Apparel Bangladesh Ltd

Introduction:

Brandix Apparel Bangladesh Ltd; complex was surveyed for fire safety on **17/07/2022** 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): Total 14 nos. structure under the factory ID: 24452

Building-1: 3 Storied Industrial Building-RCC Construction

Building-2: 3 Storied Office Building -RCC -under construction civil finishing work ongoing & it was not found occupied during inspection.

Building-3: 2 Storied Utility Building -RCC

Building-4: Pump room & under water tank

Building-5: Security Room 1

Building-6: Security Room 2

Building-7: Security Room 3

Building-8: Security Room 4

Building-9: Car Parking Shade

Building -10: Gas house

Building-11: Motor cycle Parking Shade

Building-12: Bicycle Stand Shade & Septic tank

Building-13: Waste Collection Building

Building-14: Boiler Building-RCC construction.

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

Points of contact:

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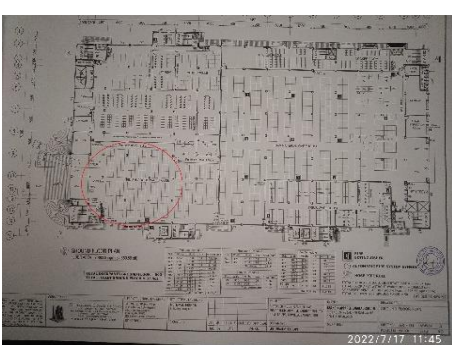
Findings & Recommendations :

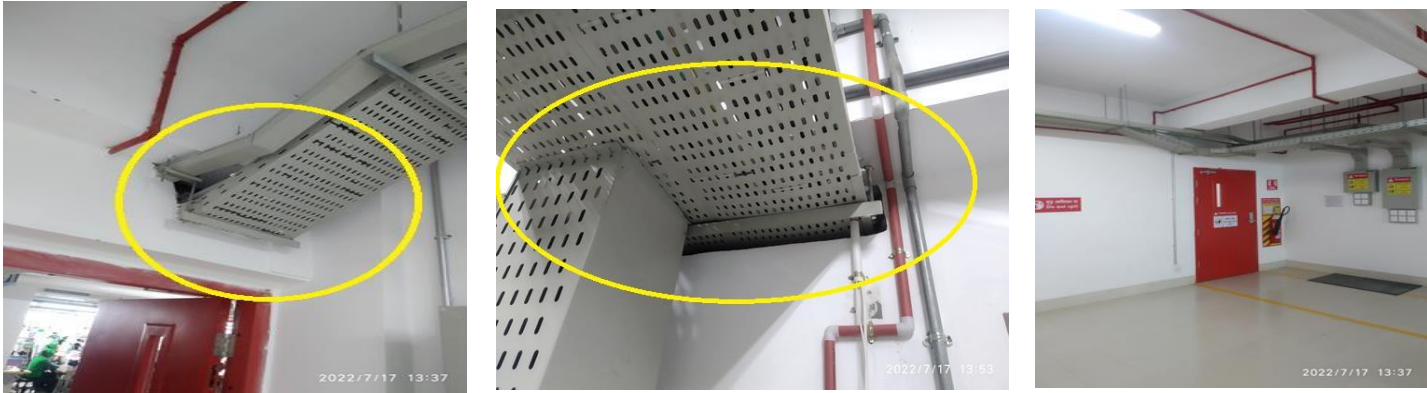
Table 1- summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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: Findings & Recommendations for 3 storied industrial building

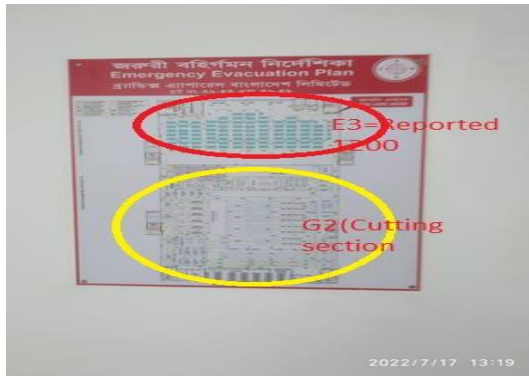
Sly No.	Category		Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire rated construction as the installed fire door was not functional. Location: 3 storied industrial building	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating with 1- hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated materials for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating exit stair enclosure for buildings 4 or more stories. 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. Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction as per RSC Technical Guideline (Standard) V1-6.14.3 ..	Within 3 months

				
F-2	Fire Rated Construction	Elevator shafts are directly open into the production floor without proper fire separation as installed fire rated door was not functional. Located: 3 storied industrial building	Ensure minimum 1-hr listed/3rd part certified fire rated lift landing doors for elevator shafts otherwise close the area of the shaft with a 1-hr fire-rated construction barrier. If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3months
				

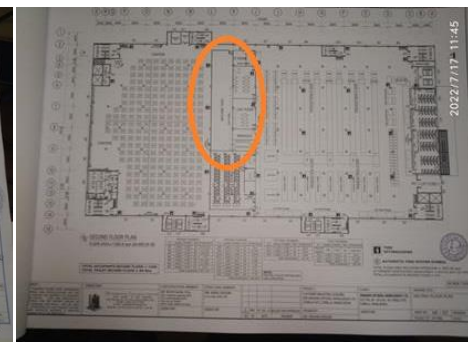
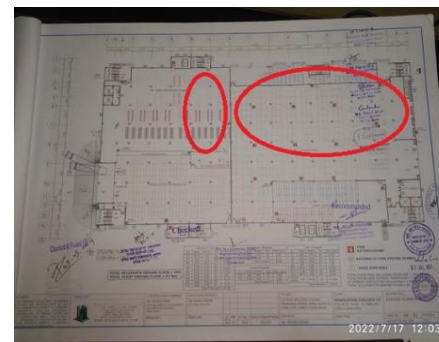
F-3	Fire rated construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical riser of 3 storied industrial building	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 2-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet. Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months
				

F-4	Fire rated construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Ground, first & 2nd floor of industrial building.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² 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. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour fire rated construction.	Within 3 months
 				

F-5	Fire rated construction	AHU are not properly fire separated by fire rated construction due to unprotected opening . Location: W-E-N side of ground, first & 2nd floor of 3 storied industrial building	Separate the Air handling unit/machine by 2-hr fire rated construction. Seal all unprotected openings and penetration.	Within 3 months
  				
F-6	Fire Rated Construction	The Dining area E3 (Reported capacity 1200) are not properly separated from cutting section (G2) by fire rated construction. Location: 2nd floor of Industrial building	The dining area (E3) is not permitted with moderate hazard occupancies (G2) following part 3, table 3.2.1 of BNBC-2006. Relocate the dining to or from this building to meet the requirement as per BNBC 2006, part 4 chapter 3 section 3.21.3 and part 3 of table 3.2.1.	Within 3 months



F-7	Means of Egress	Common path of egress travel was more than 23 m in the ground floor & 2nd floor of 3 storied industrial building	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23m.	Within 3 months
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F-8	Means of Egress	Building did not have stair designation signs & occupant load signs at required locations. Location: 3 storied industrial building	Provide stair designation sign & occupant load sign 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.	Within 1 month
F-9	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: 3 storied industrial building	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 months
F-10	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with RSC Technical Guideline (Standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with RSC Technical Guideline (Standard) and keep written records on-site.	Within 3 months

F-11	Fire Alarm & Detection system	Fire alarm and detection system installation complete which requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit the 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 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. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design within 2 months, modification within 4 months
F-12	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guideline (Standard).	Within 1 Month (after installation)
F-13	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 and RSC Technical Guideline (Standard).	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 and RSC Technical Guideline (Standard).	Within 3 months