

# INITIAL FIRE SAFETY INSPECTION REPORT

## EVITEX APPARELS LIMITED - EXTENSION

**RSC ID: 25786**

24°09'55.5"N 90°25'56.6"E

Shirirchala, Bhabanipur, Joydevpur, Gazipur-1704, Bangladesh.

**Other Factory : EVITEX APPARELS LIMITED (RSC ID: 10607)**



**Inspected By: Tanvir Jubayer Rahman**

**Date: 15-October-2024**

# Fire Safety Inspection Report

## EVITEX APPARELS LIMITED - EXTENSION

### Introduction:

**EVITEX APPARELS LIMITED - EXTENSION** complex was surveyed for fire safety on **15-Oct-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

**Factory Building name(s):** A short description of the structures of this RSC ID are following,-

SI	Name	Construction year	Type
01	<b>Warehouse Extension Building *</b> (3 Storied RCC Building ) Approx. Area: 13,470 Sft (Only extension part)	Construction year : December 2022 to October 2023. Occupied year : November 2023. Approval Date: 28-Nov-2022 (from LGED)	New Construction

**Other Structures in the factory premises:**

**Building-1** (3 std RCC Production Building), **Building-2** (1 std RCC Security building), **Building-3** (1 std generator & fuel room), **Building-4** (Boiler room)  
**Shed-1** (Medical and child care), **Shed-2** (Dining, canteen & prayer room), **Shed-3** (Kitchen), **Shed-4** (Wastage godown), **Shed-5** (transformer room), **Shed-6** (RMS room).

Above mentioned 4 (four) buildings and 6 (six) sheds are covered under **RSC ID: 10607**.

\* **Note:** Warehouse Extension Building is the horizontal extension of building-1 at south side. Building-1 & Warehouse Extension Building are independent RCC structures, but architecturally connected as a single fire compartment. All the occupancy of Building-1 & Warehouse Extension Building shares the buildings, production and storage facilities.

**Factory Address:** Shirirchala, Bhabanipur, Joydevpur, Gazipur-1704, Bangladesh.

**Additional Information:**

1. Warehouse Extension Building is horizontal extension at the south side of existing main production building, Building-1 (RSC ID: 10607). The existing building was constructed from Jan 2004 to May 2005 (ground floor) with approval from LGED on 12 June 2005, and vertically extended on 2014 (1st Floor) and 2015 (2nd Floor). Building-1 & Warehouse Extension Building are independent RCC structures, but architecturally connected as a single fire compartment. All the occupancy of Building-1 & Warehouse Extension Building shares the buildings, production and storage facilities.
2. Fire alarm and detection system (FADS) is common for both RSC ID: 10607 & 25786, where loop-1,2 and 3 are used for RSC ID 10607 and Loop-4 is used for RSC ID 25786. FADS of RSC ID 10607 with existing FACP was approved through a final verification inspection conducted by RSC on 02-Feb-2021.
3. Full building including existing part (building-1 and Warehouse Extension Building) Initial Design Review is required, as major modification has been made in the system after approval and entire building (building-1 and Warehouse Extension Building) will go through T&C process along with RSC ID 25786.

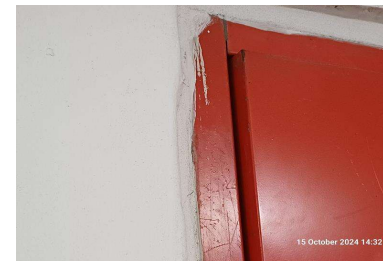
**Findings & Recommendations :**



EVITEX APPARELS LIMITED - EXTENSION

Table 1 summarizes the major fire safety issues identified during the inspection of main buildings. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the similar types of findings throughout the premises. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for approval.

Table-1:






SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	<p>Areas used for combustible storage open to the factory are not separated by fire rated construction due lack of proper functioning of the installed fire rated doors. Furthermore, the gap beneath the fire rated door has been found more than 19mm.</p> <p><b>Locations:</b> All floors of Warehouse Extension Building.</p>	<p>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.</p> <p>The clearance under the bottom of a fire door shall be a maximum of 19 mm. From edges and top shall be limited to a maximum 4.8 mm. All measurement shall be taken from the ""pull side"" of the door.</p> <p>The factory shall ensure the integrity of the functionality of the fire rated door through proper datasheet, certificate and listing label.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: maximum height of 2.45 m (8 ft.) and maximum area of 23 m<sup>2</sup> (250 ft<sup>2</sup>) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.</p> <p>Accessory occupancies shall not exceed 10 percent of the building area of the story in which they occur.</p>	Within 3 Months



F-02	Fire Rated Construction	Building expansion joint has been observed without protection to prevent smoke or fire propagation from one floor to another floor.	<p>Expansion and contraction joints provided to accommodate expansion, contraction, wind or seismic movement shall be protected with an approved material having the same degree of fire resistance as that of the floor/ceiling in which it is installed.</p> <p>The used sealer materials shall be 3rd party certified and installation shall be as per manufacturer's guideline and certified design by listing authority.</p>	Within 3 Months
				
F-03	Fire Rated Construction	<p>Storage rooms discharges directly into exit stair enclosure without vestibules.</p> <p><b>Location:</b> Stair-3, all floor.</p>	<p>Openings from the exit enclosure to the storage room, shall be provided with a vestibule with fire-rated construction and openings.</p> <p>Provide a minimum 1 hr. fire rated door on the exit stair side and a minimum 1 hr. fire rated door on the storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.</p> <p>The minimum width for vestibules shall not be less than 1.1 m and length 1.8 m.</p>	Within 3 Months
				

F-04	Means of Egress	<p>The exit stair is not separated from other occupancy due to the non-functionality of the hardware of the fire rated door.</p> <p><b>Location:</b> Stair-3 &amp; Stair-4.</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> <p>The clearance beneath the fire rated door shall be a maximum of 19 mm. From edges and top shall be limited to a maximum 4.8 mm. All measurement shall be taken from the ""pull side"" of the door.</p> <p>Any modification of fire doors beyond the job site preparation shall be approved by the door manufacturer.</p> <p>Install the fire door as per NFPA 80. Factory shall ensure the integrity of the functionality of the fire rated door through proper datasheet, certificate and listing label.</p>	Within 3 Months
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F-05	Means of Egress	<p>The exit stair enclosure was not fire separated from storage area and fire pump room due to the unprotected opening within the roof and adjacent structure located within 10 feet of stair.</p> <p><b>Location:</b> Stair-4, Ground floor</p>	<p>Seal all penetrations and openings in exit stair enclosure walls to maintain the required fire separation.</p>	<p>Within 3 Months</p>
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F-06	Fire Alarm & Detection System (FADS)	<p>Automatic fire alarm and detection system installation found completed which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).</p> <p><b>Note:</b> Full building (building-1 and Warehouse Extension Building) including existing part Initial Design Review is required as major modification has been made in the system after approval and entire building will go through T&amp;C process.</p>	<p>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 buildings in accordance with review comment, Accord/ RSC Technical Guidelines (Standard) and NFPA 72.</p> <p>After installation/modification 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.</p>	<p>Design Review within 2 months and installation within 4 months</p>
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F-07	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors.  <b>Location:</b> All floors of Warehouse Extension Building.	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 1 month
F-08	ITM of Fire Alarm and Detection System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. (After Installation)	Within 1 month
F-09	Inspection Testing and Maintenance of Emergency lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with RSC technical guidelines (standard).	Inspect, test and maintain the emergency lighting system in accordance with RSC technical guidelines (standard). Keep written records on-site.	Within 1 month
F-10	Inspection Testing and Maintenance of Fire extinguisher (ITM)	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.	Within 1 Month