

INITIAL FIRE SAFETY INSPECTION REPORT

Vintage Denim Apparels Ltd. (New building)

RSC ID: 25530

Boherarchala, Sreepur, Gazipur-1740

Geographical Coordinates of factory building: 24.19123, 90.40612

**Other Factories: ID-12489(Vintage Denim Apparels Ltd.) &
ID-23076 (Vintage Denim Apparels Ltd.(Wet Processing)**



Inspected By: Yusuf Ahmed and Tanvir Jubayer Rahman

Date: 25 February-2024

Fire Safety Inspection Report

Vintage Denim Apparels Ltd. (New building)

Introduction:

The **Vintage Denim Apparels Ltd. (New building)** complex was surveyed for fire safety on **25 February, 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) in this ID:25530:

1. Building-8: 6 Storied Production building

Construction Time: November-2021 to November-2022, Occupied on: January-2024

Building Approval: From LGED on 22 May 2023

Construction Period: New

Highest occupiable Floor: 71'-9"

Total 273,801.17 Sft

2. Building-09: 4 Storied Utility Building

Construction Time: November-2022 to September-2023, Occupied on: January-2024

Building Approval: From Sreepur Pourashava on 27 March 2023

Construction Period: New

Highest occupiable Floor: 51'-7"

Total Area: 21,359.63 Sft

3. Building-06 : Security post-3 & ATM Booth

Construction Time: February -2017 to April-2017, Occupied on: April-2017

Building Approval: 07 February 2017

4. Shed-6: Civil Office

Construction Time: June-2018 to December-2018, Occupied on: January-2019

Building Approval: 23 March 2023

5. Shed-7: LT-3

Construction Time: June-2020 to December-2020, Occupied on: January-2021

Building Approval: 23 March 2023

6. Shed-8: Acid Wash

Construction Time: October-2022 to December-2022, Occupied on: January-2024

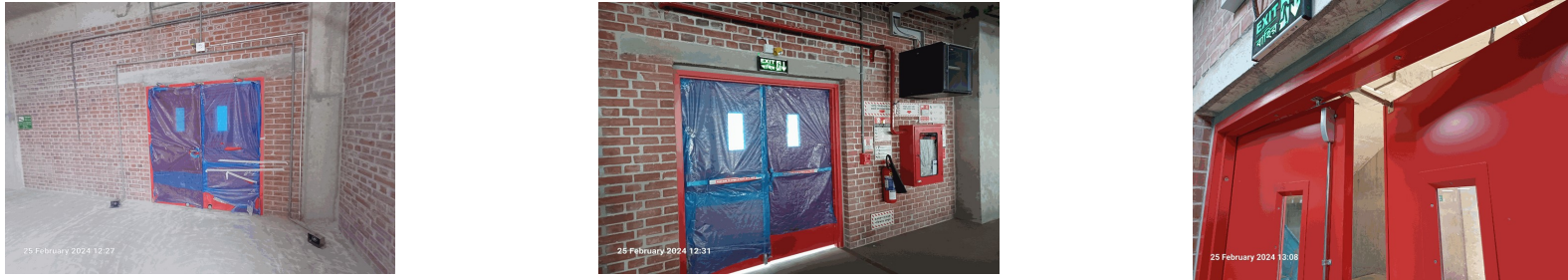
Building Approval: 22 May 2023

Height: 20'-1"

Factory Address: Boherarchala, Sreepur, Gazipur-1740

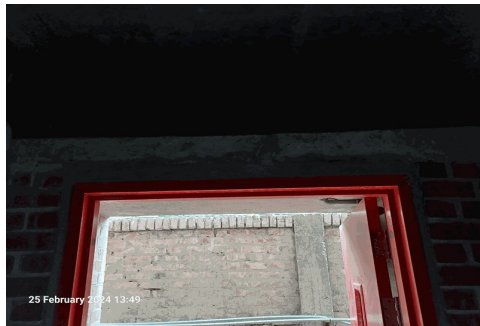
Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection of main building. 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:				
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction. Fire doors were under installation, door co-ordinators were not properly functional. Location: Production Building and Utility Building.	Provide minimum 2-hr fire rated separation in exit enclosure for buildings 4 storied or more and 1-hr for buildings upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by minimum 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. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC standard 6.8.3.1 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-02	Means of Egress	Handrails are not provided on both sides of the exit stairs on all floors. Location: Production Building & Utility Building.	Provide handrails on both sides of the exit stair. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread.	Within 1 month

				
F-03	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures on different floors of main production building.	Seal all unsealed penetration to maintain the 2-hr fire rating of the exit enclosures. If firestop materials are used for sealant the installation shall be as per 3rd party certified/listed design. Penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure.	Within 3 months
				
F-04	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. Location: Production 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-05	Emergency Lighting ITM	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

F-06	Fire Rated Construction	Elevator shafts are directly open into production floor without fire separation.	Ensure a minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with a 2-hr fire-rated construction barrier and 1.5-hr fire-rated doors.	Within 3 months
				
F-07	Egress Lighting	Exit signs were not provided at exits and directional signs were not provided where direction of the path of travel to an exit has changed.	Provide exit signs above all building exits to the exterior, all doors to the exit stairs. 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 month
				

F-08	Fire Rated Construction	Storage room discharges directly into exit stair enclosure without vestibules. Location: 1st Floor of the Production Building.	Openings from the exit enclosure to the storage room, 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 store 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 for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 months
 				
F-09	Fire Rated Construction	Rooms used for combustible storage (Finished goods) are not separated by fire rated construction from adjacent washing section on first floor of the main production building.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Seal/protect all unprotected openings to maintain the fire separation.	Within 3 Months
  				

F-10	Fire Alarm & Detection System (FADS)	Fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards	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.	Design within 2 months and installation/ modification within 4 months
 The first photograph shows a red Siemens fire alarm pull station mounted on a brick wall. The second photograph shows a white fire alarm call point instruction sign with a red fire alarm call point button. The third photograph shows a black fire alarm control panel mounted on a brick wall.				
F-11	ITM of Fire Alarm & 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 table 14.3.1 of NFPA 72.	Within 1 month (after installation)

F-12	Fire Suppression System (SUPS)	Fire protection system (Standpipe) installation completed which requires detailed review to confirm compliance with the relevant NFPA and RSC Technical Guidelines (Standard). Location: Production Building & Utility Building.	Submit the standpipe system design to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and the relevant NFPA standards. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 months and installation/ modification within 4 months
  				
F-13	ITM of Fire Suppression System (SUPS)	Inspection, testing and maintenance of the standpipe system is not found in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.

F-14	Fire Rated Construction	Egress court of Stair-1 of the main production building is not separated from adjacent acid wash section and loading-unloading area.	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. 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.	Within 3 months
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F-15	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies through expansion joint and plumbing PVC pipes. Location: Production Building.	Seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire rated listed/certified materials. The installation of such fire rated materials shall be following certified design	Within 3 months
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F-16	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated wall separating BBT riser from the floor. Location: Production Building.	Seal all penetrations and openings of the fire rated wall to maintain the required 2-hr fire separation. If firestop materials are used for sealant the installation shall be as per 3rd party certified/listed design.	Within 3 months
