

INITIAL FIRE SAFETY INSPECTION REPORT

Columbia Apparels Ltd - Extension

RSC ID: 25893

ADDRESS: 228/1 Tin Sharak, Joydevpur

Other Factories: Columbia Apparels Ltd (ID-9572)



Inspected By: Md. Anisuzzaman

Date: 06 November 2024

Fire Safety Inspection Report

Columbia Apparels Ltd - Extension

Introduction:

Columbia Apparels Ltd - Extension; complex was surveyed for fire safety on **06/11/2024** 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): There are three structure under this ID-25893 which are listed below:

Serial number	Building Name	Construction Type	Date of Construction	Number of story	Design Approved(date & authority)	Type of building as per RSC Technical guideline	Total Floor Area in meter square (m2)
Building 1	Factory Building (Extended Portion)	RCC Structure	Apr-2022 to Nov-2022 & Occupied: Feb-2023	5- Storied	Permit design not available	New construction	1830
Building 2	Fabric Warehouse	Steel Structure	Sept-2018 to Jul-2019 & Occupied: Aug-2019	Two Storied	Permit design not available	Interim Construction/building	1728
Building 3	STP	RCC Structure	Apr-2023 to Feb-2024 & Occupied: Jun -2024	Single Storied	Permit design not available	New construction	62.52

Factory Address: 228/1 Tin Sharak, Joydevpur

Points of contact:

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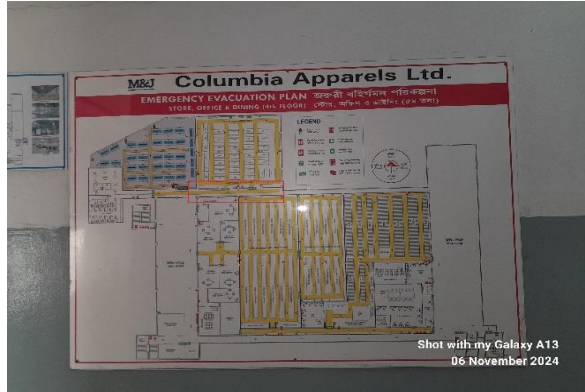
Findings & Recommendations :

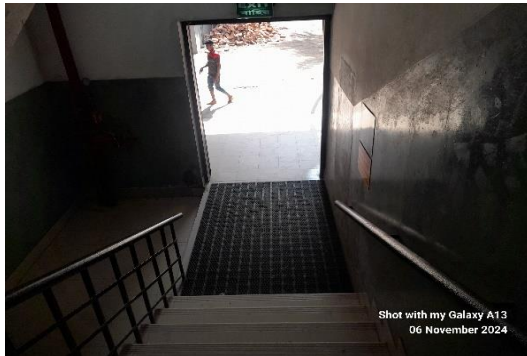
Table 1-2 summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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: Finding & recommendation for Building-1 , 5-Storied Factory Building (Extended Portion)

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	The factory has claimed that Building expansion joint are sealed by fire rated materials but certificate, design & technical datasheet is missing which requires to be verified. Location: 5-Storied Factory Building (Extended Portion)	Collect the certificate, design & other documents for fire stop materials & keep on site . Seal the building expansion joint opening by 3 hr. listed fire rated sealant/material to maintain required floor to floor separation. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's datasheet.	Within 3 months
				

F-2	Fire rated construction	The Dining area is not separated by fire rated construction with the adjacent occupancies. Location: 4th floor of the 5-Storeyed Factory building(Extended portion)	Separate the dining area from other occupancies(office , store) by minimum 3-hr fire rated construction. Provide rated exit passageways leading directly to the exit stairs of the same resistance rating.	Within 3 months
 				
F-3	Fire Rated Construction	Dedicated store room is not separated properly due to installed fire doors listing label missing at several floors Location: 5-Storeyed Factory building(Extended portion)	Collect the 3rd party listed certificate & technical datasheet & keep on site. Proper label on door leaf's, frame and accessories is required to ensure as per requirement of certification authority and manufacturer declaration. Provide dedicated storage rooms separated by minimum 1 hr. fire rated construction. 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.	Within 3 months

				
F-4	Mean of Egress	Width of exit stairs are less than 1.5 m (60 in.). Location: West side Stair-4(56 inch)	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 3 months
				
F-5	Mean of Egress	Parapets or guards are not provided in occupied roof . Location: 5-Storeied main building(extended portion)	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months



F-6	Means of Egress	Updated Occupant load sign is not posted at the exit stair at all level. Location: 5-Storied main building(extended portion)	Updated Occupant load sign shall be posted at the entrance to exit stair at all level.	Within 1 month
F-7	Means of Egress	Updated Building exit stairs designation signs is not posted at required locations. Location: 5-Storied Factory Building (Extended Portion).	Provide updated exit stair designation signs 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-8	Means of egress	The door width found 29 inches of second exit from first to 3rd floors of 5-storied building (extended part) which is not as per standard. Location: 5-Storied Factory Building (Extended Portion)	Doors in a means of egress shall have a minimum width of 1 m (39in) as per RSC Technical guideline standard V1-6.5.6.1.2 .	Within 2 months



F-9	Mean of Egress	Updated fire evacuation plan & maps are not posted at the entrance of all exit stair. Location: 5-Storied Factory Building (Extended Portion)	Update Fire evacuation plan & maps shall be posted at the entrance to each exit stair as per RSC Technical guideline standard V1-13.3	Within 1 month
F-10	ITM(Egress lighting)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard. Location: 5-Storied Factory Building (Extended Portion)	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1month

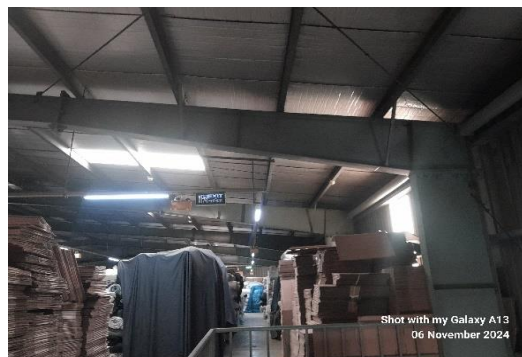
F-11	Fire Alarm & Detection System (FADS)	The factory has been installed an addressable fire alarm & detection system (NITTAN (Model: evo+5400, evo+5800) all structure such as 5-storied Main Factory Building (Extended Portion) , two Fabric Warehouse , STP building in this ID-25893 and Pre-T&CVI has been conducted combined both (ID-25893 & ID-9572) on date 19-May-2024 & Status is Pre-T&C closure verification inspection required. So Pre-T&CVI closure verification & T&C will be conducted combinedly for both ID. Location: 5-Storied store building, Two storied fabric warehouse & STP.	After complete modification work as per Pre-T&CVI report, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation for combined both ID together. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Modification within 1 months (If require).
 The row contains four photographs documenting the fire alarm system installation. From left to right: 1. A fire alarm control panel with a 'Battery Box' label. 2. A circular ceiling-mounted smoke detector. 3. A red fire alarm bell mounted on a wall. 4. A red fire alarm pull station with a label. Each photo has a small caption at the bottom right: 'Shot with my Galaxy A13 06 November 2024'.				
F-12	Fire alarm & Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 month after modification(If require).

F-13	Fire Protection System(Standpipe)	5-Storeyed Factory Building (Extended Portion)(ID-25893) is architecturally connected to 5-Storeyed main factory building(ID-9572).So, both Building are considering single fire compartments. Standpipe system installation requires detailed initial review for combined both ID to confirm compliance with NFPA- 14 , 20 ,22 & 24 or as per RSC standard.	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 1 month and modification within 3 months (If require).
				
F-14	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).

F-15	ITM of Protection System(SUPS)	Inspection, testing, and maintenance for the fire pump system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after modification(If require).
F-16	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. Location: 5-Storied Factory Building (Extended Portion)	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 1 month

Table-2: Finding & recommendation for Two storied fabric warehouse.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-17	Fire rated Construction	The main structural elements of factory buildings (G and/ or H2) are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. Building peak height appr. 9.527 Meter. As per RSC Technical Guidelines (Standard) V1 1.5.5 this building is defined as an interim building & have lack of front space as per standard. so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0 Location: Two storied fabric warehouse	The building shall be Group 1 or Group 2 construction as required in BNBC 2020 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2020- Table 3.2.4, 3.1.7 and 3.3.1 Factory shall ensure that, all the design, datasheet, certificate, and the design-philosophy has been reviewed from the RSC prior to install the passive fire protection system.	Within 6 months



F-18	Mean of Egress	Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction. Location: Two fabric warehouse	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. 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.	Within 3 months
 				
F-19	Means of Egress	Updated Occupant load sign is not posted at the exit stair at all level Location: Two storied fabric warehouse	Updated Occupant load sign shall be posted at the entrance to exit stair at all level.	Within 1 month
F-20	Means of Egress	Width of exit stairs (3feet 7 inch) are less than 1.5 m (60 in.). Location: West side exit stair-2(width 43 inch)	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 1 month



F-21	Means of Egress	Building did not have exit stair designation signs at required locations. Location: Two storied fabric warehouse	Provide updated exit stair designation 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-22	Means of egress	Store room directly open into exit stair enclosure without vestibule. Location: Two storied fabric warehouse building.	Openings from exit enclosure to storage shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guideline (Standard) V1-6.14.3 . Provide a 2 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. The minimum width for vestibules shall not be less than 1.1m and length 1.8m as per BNBC, Part-4, Chapter-3, section 3.13.3. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months



F-23	Mean of Egress	Updated fire evacuation maps is not posted at the entrance of all exit stair. Location: Two storied fabric warehouse	Update Fire evacuation plan & maps shall be posted at the entrance to each exit stair as per RSC Technical guideline standard V1-13.3	Within 1 month
F-24	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes . Location: Two storied fabric warehouse	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
F-25	ITM(Egress lighting)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard. Location: Two storied fabric warehouse	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1month

F-26	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per RSC standard. Location: Two storied fabric warehouse	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per RSC standard.	Within 1 month
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