

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Knit Valley Fashions Limited

RSC ID: 24448

Address: Kalma, Dairy Farm, Savar, Dhaka.

Google Coordinate: 23.872991, 90.292764

Other Factories: N/A



Inspected By: Nirmal Chandra Sinha and Md. Khalaquzzaman

Date: 01 August 2022

Introduction:

Knit Valley Fashions Limited; complex was surveyed for fire safety on 01-August-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.

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

Sly No.	Category		Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Building-1&2: The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction.	Exits enclosure connecting three or fewer stories shall be enclosed with a minimum 1-hr fire-resistance rating. Exits enclosure connecting four or more stories shall be enclosed with a minimum 2-hr fire-resistance rating. Provide minimum 1-hr. (three or fewer stories) / 1.5-hr. (four or more stories) fire rated doors and seal all unprotected openings and penetration 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. 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 Technical Guidelines (standard) 6.8.3.1.	Within 3 months

					
F-2	Fire Rated Construction	Building-1: Storage rooms are not separated by fire rated construction on Ground & 1st floors.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. If store rooms are directly discharge in exit stair enclosure then 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-3	Fire rated construction	<u>Building-1:</u> Areas used for combustible storage open to the factory are not separated by fire rated construction on ground and first floors.	Provide defined storage areas and limit the storage arrangement as follows:- Maximum height of 2.45m (8ft.) and maximum area of 23m² (250 ft²) – If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1,000 ft²). Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
-----	-------------------------	--	--	-----------------



F-4	Fire rated construction	Building-2: Dining areas are not separated by fire rated construction from office area on the ground floor.	Separate dining area by a minimum 2-hr fire rated construction. Seal and/or protect all openings to maintain the required fire separations.	Within 1 month
-----	-------------------------	--	---	----------------



F-5	Fire rated construction	Building-2: Unsealed penetrations and openings are located in east exit stair enclosure throughout the building.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation as per RSC Technical Guidelines (Standard V1.0) 6.3.1.3. The rating of the exterior wall shall extend 3.05 m (10ft) beyond the ends of the stair structure.	Within 3 months
				
F-6	Fire rated construction	Building-1: Distribution board (DB) and storage rooms are located south-west and north-west exit stair enclosure respectively on roof top.	Remove DB board from exit stair enclosure or Separate the DB and storage rooms by a minimum 1-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months

				
F-7	Fire rated construction	Building-1: The storage portion of the building is constructed by steel structure which shall be ensured minimum type-II construction as per BNBC-2006.	Ensure the structural element of the building is type-II construction following table 3.3.1 and 3.2.4 of BNBC. Additionally as a detailed reference RSC Technical Guidelines (StandardV1.0) and Technical Guidance on Designing Unprotected Steel Structure (available in RSC website) can be followed.	Within 6 months
				

F-8	Means of egress	Building-1 & 2: Non-compliant locks gates with locking features are provided at the 2-storied office building on 1st-floor office exits & ground floor dining areas. 2-storied main gate building day-care on the ground floor & IT center on 1st floor. 2-storied production building on 2nd floor (roof) exits. All doors were open and unlocked during the inspection.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and RSC Technical Guidelines (Standard V1.0) 6.8.2.	Immediately
				
F-9	Means of egress	Building-1: Storage was observed on aisles, exit stair enclosure, and exit discharge paths on the ground & 1st floors of the 2-storied production building.	Remove all storage from exit stairs and egress paths.	Immediately



F-10	Means of egress	Building-2: Exit stair door is directly swing over in the stair landing in the direction of egress travel on ground & 1st floors.	Modify the egress door to swing in the direction of egress travel in a way that it does not swing over stair landing and does not reduce the exit width.	Within 3 months
------	-----------------	---	---	------------------------



F-11	Means of egress	<u>For all buildings in the factory premises:</u> Stair designation signs at floor entrances and occupant load signs at required exit stair entrances are not accordance with RSC Technical Guidelines (Standard).	Update stair designation signs, occupant load signs and emergency evacuation plans at required locations.	Within 1 month
 				
F-12	Egress lighting (ITM)	<u>For all buildings in the factory premises:</u> Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the standard.	Inspect, test and maintain the exit sign and emergency lighting system in accordance with the standard. Keep written records on-site.	Within 3 months

F-13	Fire Alarm & Detection System (FADS)	<u>For all buildings in the factory premises:</u> An addressable fire alarm system has installed in the factory building premises. The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, modification within 4 months (if required).
				
F-14	Fire Detection System (ITM of FADS)	<u>For all buildings in the factory premises:</u> Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per RSC Technical Guidelines (Standard).	Within 1 month.

F-15	Fire Protection System (ITM of Extinguisher)	<u>For all buildings in the factory premises:</u> Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per standard.	Within 3 months
------	--	--	--	-----------------