

INITIAL FIRE SAFETY INSPECTION REPORT

Newtex Knit Fashion Ltd (Extension)

RSC ID: 24852

Gorai, Mirzapur, Tangail
24.093767, 90.175808

Other Factories: Newtex Knit Fashion Ltd ID 11724
(Within the same premises)



Inspected By: Ahammad Kabir
Date: 11 January, 2024

Fire Safety Inspection Report

Factory Name: Newtex Knit Fashion Ltd (Extension)

Introduction:

Newtex Knit Fashion Ltd (Extension) complex was surveyed for fire safety on 11 January 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):

1. Building-02
2. Building-03
3. Building-04
4. Building-05
5. Building-06
6. Building-07

Factory Address: Gorai, Mirzapur, Tangail

Points of contact:

1.
Name: Matiur Rahman
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2.
Name: Abdul Azim
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Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. 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:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location: Building 2	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2-hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 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.	Within 3 months

		 		
2	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Location: Building 2.	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level or 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. The same fire rating is required to be ensured for the PVC pipe penetrations.	Within 3 months
		 		

3	Fire Rated Construction	Openings from exit enclosures to storage areas are not provided with vestibules. Location: Building 2: Ground floor.	Provide vestibules for openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms, boiler rooms, and similar normally unoccupied spaces according to RSC Technical Guideline (Standard)- 6.14.3.	Within 3 months
				
4	Fire Rated Construction	The exit discharge path is less than 10 ft wide and is not separated from the building interior. Location: Shed 4 & 5.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft, to provide a minimum 1-hr fire separation according to the RSC technical guidelines 6.17.2	Within 3 months

				
5	Fire Rated Construction	Rooms used for storage of combustibile materials are not separated from the surrounding occupancy/areas & floors. Location: Building 02 and shed 04	Rooms used for storage of combustibile materials shall be separated from the surrounding occupancy with a minimum 1 hour construction according to RSC Technical Guidelines (Standard) Section 3.4.2.1.5. Store rooms directly discharge in exit stair enclosure shall be separated in accordance with the RSC Technical Guidelines (Standard) Section 6.14.3	Within 3 months
				

6	Fire Rated Construction	The fire pump room is not provided with adequate fire separation.	Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers in accordance with NFPA 20 Or, Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20. Enclosed passageway from an enclosed stairway or exterior exit is required to be ensured according to section 4.12.2.1.1 of NFPA 20	Within 3 months
 				

7	Fire Rated Construction	Areas used for combustible storage are not separated by fire rated construction. Location: Building 2 (Packing Section).	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				

8	Fire Rated Construction	Storage were observed underneath the cutting tables.	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with the RSC Technical Guidelines (Standard) section 3.4.2.1.6 or where automatic sprinkler protection is installed. Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft. in width that are used for storage of combustibles.	Within 3 months
				
9	Fire Rated Construction	Building 2 is not separated from building 1.	Exterior wall of building 02 shall have fire resistance rating not less than 1 hour with the building 01 according to table 3.2.2 BNBC 2006.	Within 3 months



10	Means of egress	The width of the exit stair is less than 1.5 m (60 in.). Location: Building 2, stair 1 & 2.	In new and interim construction and constructed stairs post 24 November 2013, stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies and 2.0 m (79 in.) for all assembly occupancies. For assembly use areas provided for prayer halls, dining halls and like areas that are for integral use by the factory workers, the minimum width for the primary occupancy use of the building shall be permitted to be used.	Within 3 months
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11	Means of egress	Exit stairs do not discharge directly to the outside.	Modify stair to discharge directly outside. Or Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or Provide sprinkler protection for discharge floor in accordance with NFPA 13 meeting RSC 6.17.3 (all 4 options shall meet)	Within 3 months
				
12	Means of egress	Building did not have stair designation signs and occupant load signs at required locations on all floor. Location: Building 2.	Provide stair designation signs and occupant load signs at required locations.	Within 1 month
13	Means of egress	Aisle are not properly marked. Location: Building 2: Ground floor and cutting shed area.	Aisles shall be properly marked and provided with a minimum unobstructed clear- width of 0.9m (36 in).	3 months



14	Egress Lighting	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with RSC Technical Guidelines (standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with RSC Technical Guidelines (standard). Keep written records on-site.	Within 1 month
15	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Shed 6	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



16	Inspection Testing and Maintenance of Portable Fire Extinguisher	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.	3 months
17	Fire Alarm & Detection System (FADS)	Fire detection system installation has been reviewed by the RSC. Modification of the fire detection and alarm system has not been conducted in accordance with the reviewed design and NFPA72.	Modify the installed fire detection system in accordance with the reviewed design by the RSC and with NFPA 72.	Within 4 months



18	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with standard.	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 completed).
19	Fire Protection System	Standpipe system is required to be installed according the reviewed drawing by the RSC and in accordance with NFPA 14, 20, 22, & 24. Location: Building 2 and connected sheds.	Install / modify the standpipe system throughout the building in accordance with review comment by the RSC 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.	Within 4 months
 				

20	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing, and maintenance for the Fire pump is not in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Inspect, test and maintain the fire pump & water system and keep written records on-site, in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Within 1 Month after installation.
21	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Inspect, test and maintain the fire pump & water system & standpipe system and keep written records on-site, in accordance with NFPA 25 or as per RSC Technical guidelines (Standard).	Within 1 Month after installation.
22	Fire Rated Construction	The first floor is steel-composite type and a portion of the RCC panels are resting on the steel columns and girders which is in exposed condition without any fire protection. Also the dining shed on the roof is constructed with pre-fabricated column, purlin and rafter. Location: Building 02	Construction of interim non-high-rise building shall be type-1 or type-2 as required in BNBC 2006 Part 3 Table 3.2.4. Provide required fire rating on the structural elements by following Section 4.4 and Table 4.1.1 of the RSC Technical Guidelines Standard or Table 3.3.1 from BNBC Part 3 and Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.	Within 6 months

