

INITIAL FIRE SAFETY INSPECTION REPORT

Knit Radix Limited (Extension)

RSC ID: 25764

Shasongaon, Enayetnagar, Fatulla

GPS: 23.625105770527565, 90.47082381556434

Other Factories: Knit Radix Limited (RSC ID: 11974)



Inspected By: Md. Kamrul Hasan

Date: 12-Sep-2024

Fire Safety Inspection Report

Introduction:

Knit Radix Limited (Extension) complex was surveyed for fire safety on **12-Sep-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. Shed -1 (single-storied prefabricated steel shed) (Construction duration: November 2017 - November 2022; Floor Occupied: July 2023)
(Floor area 1840 sqm)

Factory Address: Shasongaon, Enayetnagar, Fatulla

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: Finding & recommendation

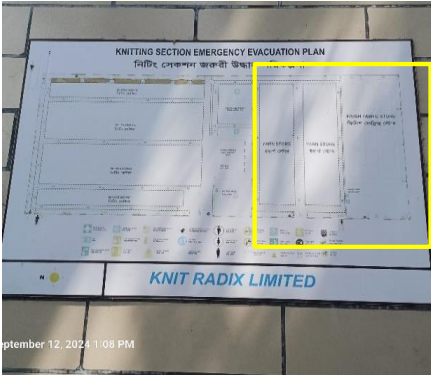
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire rated Construction	The main structural elements of the shed-01 are constructed by steel which is non-rated and were found in exposed condition without any fire protection.	The building shall be constructed as required in BNBC 2006 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1.	Within 6 months

 				
F-2	Fire Rated Construction	Storage area are not maintained properly, and not separated from the knitting section on the shed-01.	Provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) , maximum area of 23m2 (250 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2) and and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - In process storage shall be limited to 10 percent of the building area of the story in which they occur.	Within 1 month



F-3	Fire rated Construction	Rooms (bonded warehouse) used for combustible storage are not separated by fire rated construction with the knitting area.	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 0.75 hr. (45 Minutes) fire rated fire rated barrier construction.	Within 3 months
-----	-------------------------	--	--	-----------------

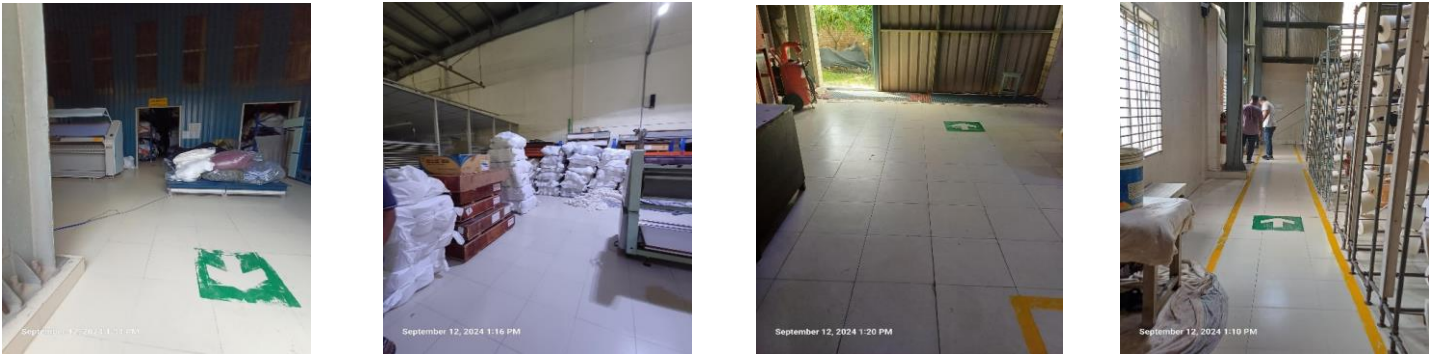
 				
F-4	Mean of Egress	The common path of egress travel exceed 30 meter in the Bonded Warehouse and Finished Fabric Store in the shed-01.	The common path of egress travel for Group H (storage) occupancies with not more than 30 occupants shall not exceed 30 m (100 ft).	Within 3 months

				
F-5	Mean of Egress	Sliding doors are provided at exit of the bonded warehouse.	All doors in a means of egress shall be of the side-hinged swinging type. Roll-down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.	Within 2 months



F-6	Means of egress	Landing are not provided at the west exits of the shed-01.	A landing shall be provided on both sides of doors used in the means of egress. Door shall not swing out over stairs.	Within 2 months
-----	-----------------	--	---	-----------------

 				
F-7	Means of Egress	Building did not have occupant load signs at all the required locations of shed-01	Provide occupant load signage at all the required locations.	Within 1 month

F-8	Means of Egress	Aisles were found less than 36 inch (found 28 inch) in the knitting area and aisles were not provided at the few area of the knitting section, bonded warehouse area & finished fabric store.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.). Aisles mark shall be clearly visible on required places.	Within 1 month
				

F-9	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes in the bonded warehouse and finished fabric store in the shed-01.	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-10	Emergency Lighting ITM	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 month.
F-11	Fire Alarm & Detection System (FADS)	Automatic fire alarm and detection system has been found installed which requires detailed review and approval to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	Install or modify the fire detection and alarm system (where required) throughout the building in accordance with RSC standard and NFPA 72. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Within 4 months



F-12	Fire Detection System (ITM of FADS)	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-13	Fire Extinguishers 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 and RSC standards.	Within 1 month