

INITIAL FIRE SAFETY INSPECTION REPORT

FARIHA KNIT TEX LTD. (Extension Buildings)

RSC ID: 24254

Baroibogh, Enayetnagar, Fatullah, Narayanganj

Geographical Coordinates of factory building: 23°37'11.5"N 90°28'58.6"E

Other Factories In the premise: FARIHA KNIT TEX LTD.(ID:9488)



Inspected By: Dilip Kumar Mondal and Md. Zahidul Islam

Date: 08 November-2021

Fire Safety Inspection Report

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Introduction:

FARIHA KNIT TEX LTD. (Extension Buildings). complex was surveyed for fire safety on **08 November-2021** 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.

Findings & Recommendations :

Table 1 and Table 2 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: Three Storied Shed (Shed-9-Washing) and Shed-3

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Shed-03 with 3 storied RCC Building & Shed-09 The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. [The non-rated steel is unsealed, door holders are not functional and fire doors are not installed at all required locations]	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 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 ACCORD 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	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location(s): Shed-09	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
 				

F-03	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy.	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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 month
 				

F-04	Fire Rated Construction	Elevator shaft is not separated by proper fire rated construction (openings, non-rated doors, penetrations)	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	within 3 months
F-05	Egress	Directional signs are not provided where direction of the path of travel to an exit has changed.	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 3 months
 				
F-06	Egress	Floor no., occupant load, stair designation sign were not present in the exit stairs	Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors	Within 1 Month

F-07	Egress	Parapets or guards are not provided in occupiable roof// less than 42 inches	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				
F-08	Fire Alarm & Detection system	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and Accord Standard.	Submit as build drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design within 4 months, Install within 6 months
F-09	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 NFPA 72 and ACCORD standards.	Within 1 month (after installation)

F-10	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade requires detailed review to confirm compliance with NFPA 14, 20,22 and Accord Standard. [Shed-06]	Provide standpipe system throughout the building in accordance with NFPA 14, 20, 22 & Accord standard.	Design within 4 months, Install within 6 months
F-11	ITM of Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards (After installation).	Within 1 month (after installation)
F-12	ITM of Fire Extinguishers	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 ACCORD standards.	Within 3 month
F-13	Egress Lighting	Exit sign not provided at exit.	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 3 month

F-13	Egress Lighting	Exit sign not provided at exit.	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 3 month
F-14	Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units. Locations: Building-09	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month



F-15	Emergency light and Exit Sign	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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 month
F-16	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 month

Table-2: Shed 5-8

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-17	Fire Rated Construction	Shed 5-8 The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 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 ACCORD 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-18	Fire Rated Construction	Elevator shaft is not separated by proper fire rated construction (openings, non-rated doors, penetrations)	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	within 3 months
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F-19	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location(s): Shed-07	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 month
 				

F-20	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Building-05	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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 month
 				
F-21	Egress	Directional signs are not provided where direction of the path of travel to an exit has changed.	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 3 months

F-22	Egress	Common path of egress travel exceeds 8 m. Location: Chemical Shed Occupancy/Process: J	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 8m.	Within 3 months
 				
F-23	Egress	Exits are not remotely located from each other. Location: Shed-6, Diagonal Distance: 44 m, Exit to exit distance: 19m.	Modify exit arrangement or Provide additional exit(s) or Provide automatic sprinkler system throughout the building as per NFPA 13	Within 3 months



F-24	Egress	Floor no., occupant load, stair designation sign were not present in the exit stairs	Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors	Immediately
F-25	Fire Alarm & Detection system	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and Accord Standard.	Submit as build drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design within 4 months, Install within 6 months
F-26	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 NFPA 72 and ACCORD standards.	Within 1 month (after installation)

F-27	ITM of Fire Extinguishers	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 ACCORD standards.	Within 3 month
F-28	Emergency Egress Lighting	Exit directional signs were not illuminated during testing (burned out, broken, etc.).	Regularly inspect all emergency lighting system as per Accord standard and replace/install lights as needed to illuminate signs.	Within 3 month
F-29	Emergency Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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 month
F-30	ITM of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 month