

INITIAL FIRE SAFETY INSPECTION REPORT

M.I.T Apparels Ltd. (Extension New 5 storied Building)

RSC ID: 24176

Pathantuly, Godnail, Siddirganj, Narayanganj.

Google co-ordinate: 23.64061, 90.51193

Other Factories: M.I.T Apparels Ltd._9687



Inspected By: Md. Zahidul Islam, Md. Abu Taher Khan

Date: 09-Jun-2021

Fire Safety Inspection Report

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Introduction:

M.I.T Apparels Ltd. (Extension New 5 storied Building) complex was surveyed for fire safety on **09/06/2021** 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 :

The below table 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.

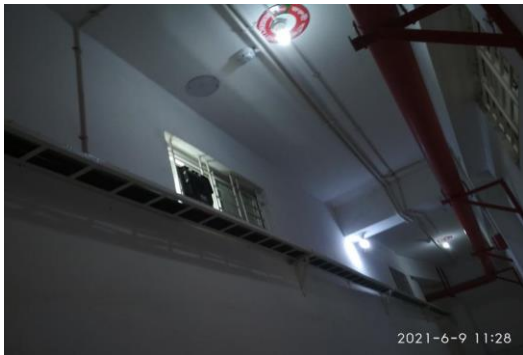
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for up to 3 storied. 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	Within 3 months



F-02	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 and they do not exceed 10 percent of the building area of the story in which they occur. 2. If sprinkler protected: If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft² (93 m²) and separated by a at least 25 ft (7.62 m) and does not constitute more than 10 percent of the building area or 4000 ft² (372 m²) of the sprinklered area, whichever is greater. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 month
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F-03	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas. Location: Ground floor	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				

F-04	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found partially unsealed. Location(s): Electrical Riser	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. The appropriate documentation of fire rated materials shall be kept on-site with the installation report.	Within 3 months
 The middle row of the table contains three photographs. The first photo on the left shows a close-up of a white electrical riser pipe entering a floor assembly, with a significant gap filled with a light-colored, crumbly material. The middle photo shows a similar penetration from a different angle, also showing the unsealed gap. The third photo on the right shows a wider view of the ceiling area with several pipes and conduits, highlighting the area where the penetration was found. Each photo has a timestamp '2021-6-9 11:18' in the bottom right corner.				
F-05	Fire Rated Construction	Fire pump room is not separated by fire rated construction from the building.	Provide direct access from the outside or provide a 2-hr enclosed passageway from an enclosed stairway or exterior exit. Indoor fire pump rooms in non-high-rise buildings or in separate fire pump buildings shall be physically separated or protected by 2-hour fire-rated construction.	Within 3 months

 				
F-06	Egress	Electrical panel boards located on the ground floor underneath exit stair.	Remove and relocate electrical panel boards from exit stairs.	Within 1 months
				
F-07	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 2 months

				
F-08	Egress	Exits are not remotely located from each other. Location: All floor except ground floor, Exit to exit distance: 40 feet, Diagonal distance: 140 feet	Where two exits, exit accesses, or exit discharges are required, they shall be located at a distance from one another not less than one-half the length of the maximum overall diagonal dimension of the building or area to be served, measured in a straight line between the nearest edge of the exits, exit accesses, or exit discharges, unless otherwise provided in 7.5.1.3.3 through 7.5.1.3.5. Modify exit arrangement or Provide additional exit(s) as per the section "7.5 Arrangement of Means of Egress" NFPA 101(2013).	Within 6 months
				

F-09	Egress	No smoking sign is not observed in the factory building.	Factory shall provide no-smoking sign at all required places. Smoking shall be prohibited in any garment factory building, separate storage building, or any building or area where the Inspector of the Factories Rules (1.6.3.7) Part 53 requires that smoking be prohibited. Signs shall be posted in Bengali and English at all building entrances. If an Owner creates a designated smoking area outside the buildings, information on the location of these designated areas shall be posted on the signs required in 13.5.2.	Within 1 month
F-10	Egress	Collapsible/sliding/shutter type doors have provided along means of egress [building exits, exit stairs, along egress routes, exit discharge]. Location: Packaging section	Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month



F-11	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-12	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 month



F-13	Fire Alarm & Detection system	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and Accord Standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required). & Upon approval & modification (if required) the owner shall verify the system by RSC for final acceptance.	Design within 4 months, Install within 6 months
F-14	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 NFPA 72 and ACCORD standards.	Within 1 month (after installation)

F-15	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is provided with standpipe system which requires detailed review to confirm compliance with NFPA 14, 20, 24.	Submit the as-built design of fire fighting system to Accord in accordance with NFPA 14, 20 and 24 & installation should be as per the reviewed design. & Upon approval & modification (if required) the owner shall verify the system by RSC for final acceptance.	Design within 4 months, Install within 6 months
F-16	ITM of FPS	Inspection, testing, and maintenance of the standpipe system is not in accordance with NFPA 14 or as per Accord standard.	Inspect, test and maintain the standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month (after installation)
F-17	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 2 month
F-18	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 2 month



F-19	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 2 month
F-20	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 2 month
F-21	Fire Pump ITM	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards.	Within 2 month