

INITIAL FIRE SAFETY INSPECTION REPORT

TM Jeans Ltd

RSC ID: 25935

Holding-41, Word-22, Bahadurpur, Mirzapur

GPS: 24.0769056, 90.3630849

Other Factories: N/A



Inspected By: Md. Kamrul Hasan & Al- Shahriar

Date: 12-Nov-2024

Fire Safety Inspection Report

Introduction:

TM Jeans Ltd complex was surveyed for fire safety on **12-November-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):

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| 1. Building 1 (Production Building), (G+5) | (Construction duration: May, 2022 - Mar, 2024; Occupied: Apr, 2024) |
| 2. Building-2 (Medical, Childcare & Dining Building), (G+2) | (Construction duration: Jan, 2024 - Sep,2024; Floor Occupied: Oct,2024) |
| 3. Building-3 (Utility Building), (Single storey RC) | (Construction duration: Dec, 2023- Feb, 2024; Floor Occupied: Apr, 2024) |
| 4. Building-4 (Security Post), (Single storey shed) | (Construction duration: Jan 2019 - Feb 2019; Floor Occupied: Feb 2019) |
| 5. Building-5 (Fire Pump Room), (Underground steel shed) | (Construction duration: Jan 2023 - Mar 2023; Floor Occupied: Apr 2024) |

Factory Address: Holding-41,Word-22, Bahadurpur,Mirzapur

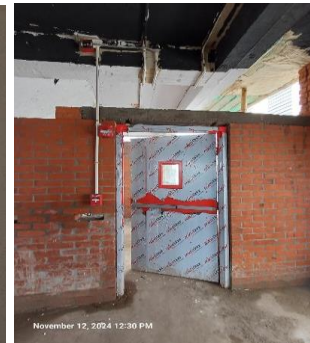
Findings & Recommendations :

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

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction as the gap under the installed fire rated door found more than 19 mm, door co-ordinator were not properly functional at some doors and doors were open with unapproved means in the Building 1 (Production Building) . Also, unprotected openings & penetrations were observed and fire rated door installation work was on-going on ground floor & first floor dining area in all the exit stair in the Building-2 (Medical, Childcare & Dining Building) .	Provide minimum 1-hr rated doors for buildings with 3 or fewer stories and 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings 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. Fire door shall install as per manufacturer guidelines. Clearance under the bottom of a door shall be a maximum of 3/4in. (19 mm). Product datasheet, certificate shall keep available at site for fire door, frame & accessories.	Within 3 Months



F-2	Fire-Rated Construction	Floor to floor penetrations were found due to plumbing pipe and BBT riser in all floors level of Building 1 (Production Building).	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.	Within 3 Months
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F-3	Fire Rated Construction	In-process store areas are not maintained as per standard and open to the factory on the 1st floor and 3rd floor of Building 1 (Production Building).	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. Where separate storage rooms are not feasible, 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). -In process storage shall be limited to 10 percent of the building area of the story in which they occur.	Within 3 Months

 				
F-4	Fire Rated Construction	Storage rooms discharges directly into exit stair enclosure without any vestibules on the ground & second floor of the Building 1 (Production Building).	Openings from exit enclosure to storage room spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the Store room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width of a vestibule shall be at least 1.1 m and not less than the width of the corridor leading to the vestibule. The minimum length of a vestibule in the direction of escape travel shall be 1.8 m.	Within 3 Months

				
F-5	Means of egress	Parapet was provided of height 49 inches but gaps in the parapet are not as per standard of Building 1 (Production Building).	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067mm (42 in.). Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 Month

				
F-6	Means of egress	Guards height of 2 feet were found on the 1st floor in the Building-2 (Medical, Childcare & Dining Building) which is not as per standard.	Guards shall be provided with a minimum height of 1067 mm (42 in). Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 Month

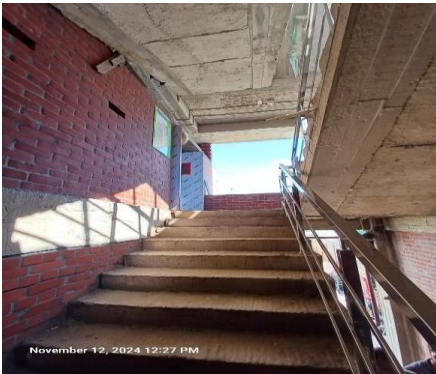
 				
F-7	Means of egress	Uneven walking surface were found at all the exit discharge paths of each building.	Walking surfaces shall be mostly level as per 6.3.5 of The RSC Technical Guidelines (Standard).	Within 1 Month

				
F-8	Means of egress	Aisles are found proper in few floors, but at most of the floors aisles are not provided throughout the factory as per standard. (All Buildings)	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 Months

				
F-9	Means of egress	Landings were not provided at all exits of the Building-3 (Utility Building).	A landing shall be provided on both sides of doors used in the means of egress. Door shall not swing out over stairs.	Within 1 Month

				
F-10	Means of egress	Stair width found 4 feet 4 inches in both stair in the Building-2 (Medical, Childcare & Dining Building).	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

 				
F-11	Means of egress	Building did not have stair designation signs, floor designation signs and occupant load signs at required locations on all floors. (Building-2 (Medical, Childcare & Dining Building))	Provide stair designation signs, floor designation signs and occupant load signs at required locations.	Within 1 Month

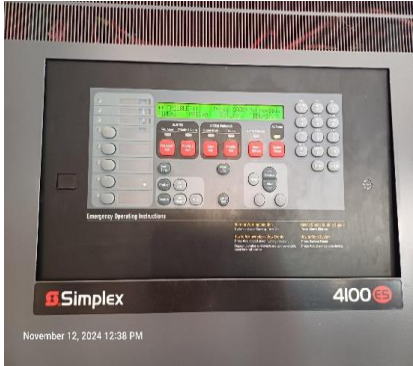
F-12	Means of egress	Handrails are not provided at both sides in the exit stair in the Building-2 (Medical, Childcare & Dining Building).	Provide handrails on both side of the stairs which have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Guards are required to be according to RSC Technical Guidelines 6.12.2 (a sphere of 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 1 Month
				

F-13	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors. (Building 1 (Production Building), Building-2 (Medical, Childcare & Dining Building))	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 2 Months
				

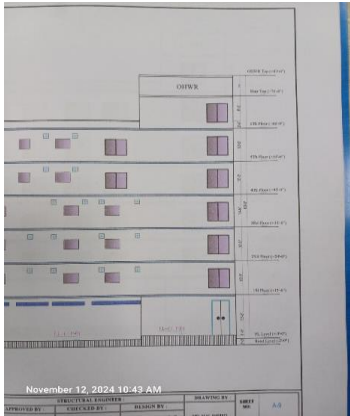
F-14	ITM Emergency Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 1 Month
F-15	Emergency Lighting	Exit signs were not provided at the exit of ground floor of Building 1 (Production Building), exit of generator room, and exits on the ground & second floor of Building-2 (Medical, Childcare & Dining Building).	Provide exit signs above all building exits to the exterior, all doors to the exit stairs. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 Month

F-16	Emergency Lighting	Directional signs were not provided at all required locations. (Building 1 (Production Building))	Provide illuminated directional signs where there is a change in the direction for the path of travel and the direction to an exit is not obvious. Lighted directional signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 Month

				
F-17	Fire Alarm & Detection system	Automatic fire alarm and detection system installation has been found complete which requires detailed review to confirm compliance with NFPA 72 and The RSC Technical Guidelines (Standard).	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design review within 2 months and modification within 4 months (if require)

					
F-18	ITM of Fire Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.		Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 (Table-14.3.1) or as per RSC standard.	Within 1 Month after installation.

F-19	Fire Protection System (Standpipe)	The Building 1 (Production Building) has highest occupiable floor level more than 11 meter (33 ft.) which requires standpipe system.	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard 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.	Design Review within 2 month and installation within 4 months (If require).
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F-20	ITM of Standpipe System	Inspection, testing and maintenance for the standpipe system was not in accordance with standard.	Inspect, test and maintain the standpipe system in accordance with of NFPA 25 and keep written records on-site.	Within 1 Month after installation.
F-21	ITM of Pump System	Inspection, testing, and maintenance for the Fire pump & water system is not in accordance with NFPA 25 or as per RSC 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 standard.	Within 1 Month after installation.
F-22	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