

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: JEANS PLUS LTD. (EXTENSION)

RSC ID: 25789

Factory Address: Plot No-398, Sreepur Bus Stand, Ganakbari, Savar, Dhaka.

Other Factories: JEANS PLUS LTD. (10460)



Inspected By: Mahbub Alam Sami

Date: 14th Oct 2024

Fire Safety Inspection Report

JEANS PLUS LTD. (EXTENSION)

Introduction:

"JEANS PLUS LTD. (EXTENSION)" complex was surveyed for fire safety on **14th Oct 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):

01. Factory Building (Extension), 6 storied RCC (Proposed 10 Storied)

Factory Building (Extension) and Factory Building (Old) are independent in RCC structures, but architecturally connected as a single fire compartment where all the occupancy shares the buildings & production facilities with means of egress. Factory Building (Old) is covered with different RSC ID (10460).

Factory Address: Plot No-398, Sreepur Bus Stand, Ganakbari, Savar, Dhaka

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 review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Storage room directly discharge to exit stair enclosure without vestibules. Location: Ground Floor of Factory Building Extension.	Openings from exit enclosure to storage and machine 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 0.75- hr. fire rated door on the storage and machine room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 months
				

F-2	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies due to Plumbing Pipes, BBT Riser. Location: Factory Building Extension.	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's guideline. (Type-1 Construction). or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. (Type-1 Construction). Floor penetration is not required where meet 4.7 (RSC Technical Guidelines)	Within 3 months
 				
F-3	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction on 2nd, 3rd & 4th floors of Factory Building Extension.	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 1 hr. 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) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.	Within 3 months

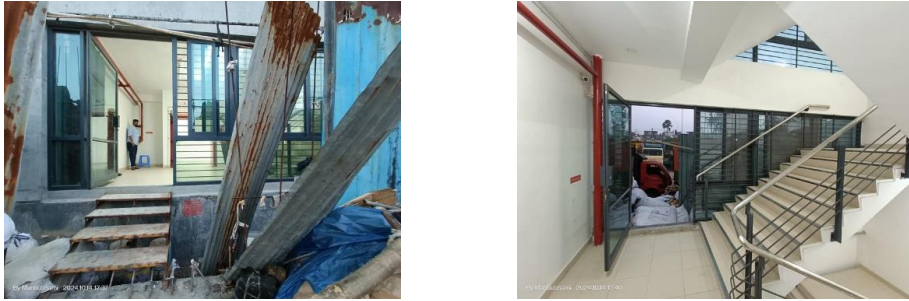
					
F-4	Fire Rated Construction	The dining area (E-4, capacity-200) is not separated from adjacent office area (F1) by fire rated construction. Location: 5th Floor, Factory Building Extension.	Separate the dining area by a minimum 2-hr fire-rated construction having a direct access to exit stair or safe location. Seal and/or protected all openings to maintain the required fire separations. Also provide at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different direction.	Within 3 months	
					
F-5	Fire Rated Construction	Expansion and contraction joints has been observed in between Factory Building Extension (ID-25789) & Old Factory Building (ID-10460). Location: Factory Building Extension and Factory Building.	Expansion and contraction joints provided to accommodate expansion, contraction, wind or seismic movement shall be protected with an approved material having the same degree of fire resistance as that of the wall or floor in which it is installed.	Within 3 months	

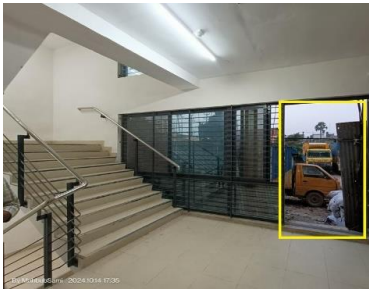
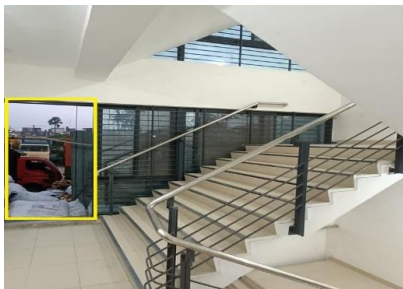
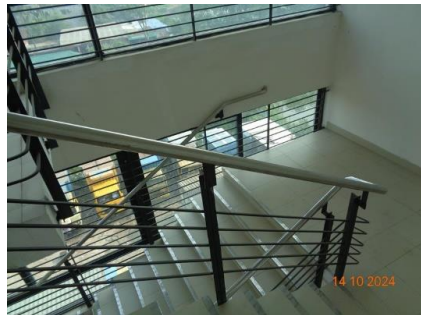
		 		
F-6	Fire Rated Construction	The main structural element of the building is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Which is located at the same fire compartment with 5th Floor of Factory Building Extension. Location: Roof Floor, Factory Building (RSC ID-10460).	The building shall be type-I or II construction. So, provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer. BNBC 2006-Table 3.2.4	Within 6 months
		 		

F-7	Fire Rated Construction	The fire pump room is not provided with adequate fire separation & safe egress from other occupancy	Provide fire pump room with a safe egress arrangement 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. In the case exterior it shall be 50 ft away from another occupancy.	Within 3 months
 				
F-8	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected opening, non-functional/missing door accessories, less than 2-hr rated wall enclosure, exceeds clearance between door bottom to floor etc. Location: Factory Building Extension.	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. Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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

				
F-9	Means of Egress	The Stair-1 (North-West, Extension Building) & Stair-2 (North-Middle, Old Factory Building) do not discharging directly to the outside of the building. Location: Ground Floor, Factory Building Extension.	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 and meet RSC Technical Guidelines Standard V1.0_Section 6.17.3.	Within 3 months
				
F-10	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.). Location: Production Building.	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months

				
F-11	Means of Egress	Width of aisle is less than 0.9m (36-in.) or not marked properly at Dining Area, 5th Floor, Factory Building Extension.	Aisles shall be provided with a minimum unobstructed clear- width of 0.9m (36 in).	Within 3 months
				
F-12	Means of Egress	Exit stairs serve more than 5 stories and do not have required re-entry provisions on all floors. Location: Factory Building Extension.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC standard 6.8.3.1.	Within 3 months

F-13	Means of Egress	Uneven path of travel and blockage in exit discharge. Locations: Stair-2 (South-West) & Stair-3 (South-Middle), Factory Building Extension.	Remove unnecessary items and level exit path to the public way.	Within 3 months
				
F-14	Means of Egress	Exit discharge width of exit stair is less than 1.5 m (60 in.) and means of egress continuity was not maintained. Location: Stair-2 (South-West) & Stair-3 (South-Middle), Factory Building Extension.	The capacity of the means of egress shall not be reduced along the path of travel in accordance with RSC standard 6.5.2. Provide adequate exit discharge width of exit stair minimum clear and unobstructed exit stair widths of 1.5 m(60 in.) in accordance with RSC standard 6.5.6.2.1 to maintain the means of egress continuity.	Within 3 months

 				
F-15	Means of Egress	Building did not have stair designation signs and occupant load signs at all required locations. Location: Factory Building Extension.	Provide stair designation signs and occupant load signs at all the required locations.	Within 3 months
F-16	Means of Egress	Provided guards at stairs are not as per standards. Location: Factory Building Extension.	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 3 months
 				

F-17	Fire Alarm & Detection System (FADS)	The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified. Location: Factory Building Extension.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA- 72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design within 2 months, installation/modification on within 4 months
F-18	Fire Detection ITM	Inspection, testing, and maintenance for the fire detection system is not in accordance with NFPA 72. Location: Factory Building Extension.	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month after installation
F-19	Fire Protection System	Fire Fighting System (Fire pump, water supply & standpipe system) installation requires detailed review to confirm compliance with NFPA 14, 20, 22, 25 and RSC Technical Guidelines (Standard).	Submit as built drawings, testing records, listing information and other relevant documentation to the RSC for review and approval, modification shall have to done as per the reviewed design (if required).	Design within 2 months, installation/modification on within 4 months
F-20	Standpipe ITM	Inspection, testing and maintenance of the Standpipe system is not found in accordance with NFPA 14.	Inspect, Test & Maintain Standpipe System and keep written record as per NFPA 14 & NFPA 25.	Within 1 month after installation

F-21	Fire Pump ITM	Inspection, testing and maintenance of the fire pump system is not found in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 and RSC standards.	1 month after installation
F-22	Fire Extinguishers ITM	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10. Location: Factory Building Extension.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and RSC standards.	Within 3 month
F-23	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Factory Building Extension.	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-24	Emergency Lighting ITM	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard. Location: Factory Building Extension.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months