

FIRE SAFETY INSPECTION REPORT

Tanima Knit Composite Ltd. (Extension)

Factory ID: 24474

10/20, South Dariapur, Savar, Dhaka-1340, Bangladesh.

23.835038, 90.25495

Other Factories in the Building: None



Inspected by: Md. Rakibul Alam and Md. Anisuzzaman

Date: 10 Oct 2022



Fire Safety Inspection Report

Tanima Knit Composite Ltd. (Extension)

Summary

Tanima Knit Composite Ltd. (Extension) complex was surveyed for fire safety on 10 Oct 2022 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.

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.



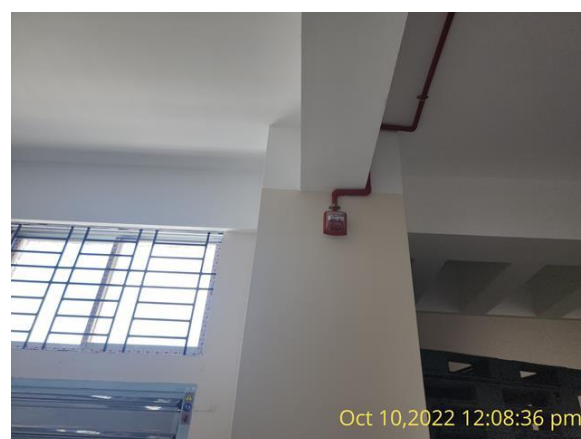
Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Protection	The fire pump set installation requires detailed review to confirm compliance with NFPA 20 and RSC Technical Guidelines (Standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and then approval/acceptance test.	Within 2 months
				
F-2	Fire Protection	The firefighting system (standpipe system) installation requires detailed review to conform compliance with NFPA 14. (Both Building).	Submit as built drawing, testing records, equipment certification and all relevant documents to the RSC for review, approval and then acceptance test.	Within 2 months





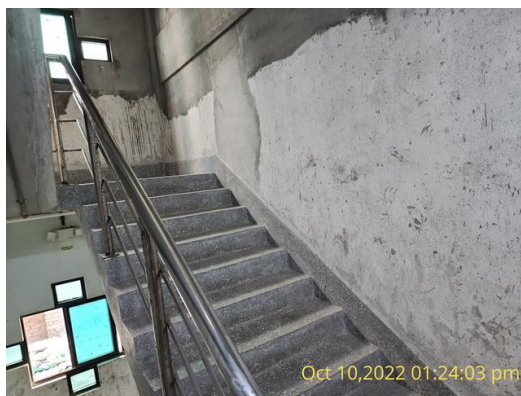
F-3	Fire Protection	Fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standard. (Both building).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and then approval/acceptance test.	Within 2 months
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F-4	Fire Protection	The high-rise building has an occupied floor greater than 23m (75 ft) and is not provided with automatic sprinkler protection.	Provide automatic sprinkler protection throughout the building in accordance with NFPA 13 and RSC standard.	Design within 2 months Install within 4 months
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F-5	Egress Lighting	Exit signage was not provided at several exits / along the path of egress / in a readily visible location. (Building 7)	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
F-6	Egress	Handrails are not provided on both sides of both exit stairs. (Building 8)	Provide handrails on both sides of the exit stair. New handrails shall 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.) Handrail height shall be 34 in to 38 in as per RSC 6.12.1.2.	Within 2 months



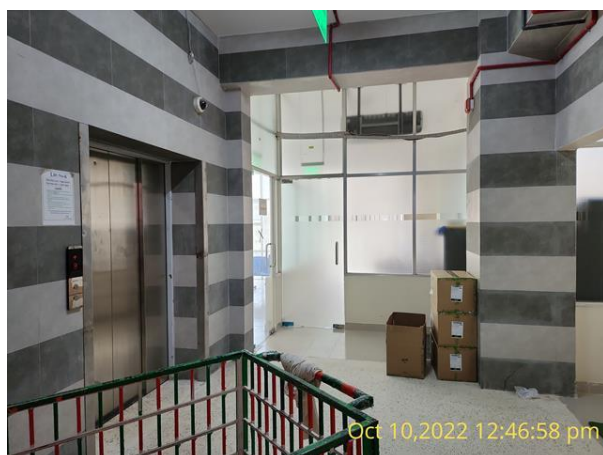
F-7	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. (Both Building)	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the 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. Lights shall be continuously Illuminated as per RSC 10.12.1.1 and 10.12.2.1	Within 1 month
F-8	Egress	Building did not have stair designation sign, occupant load sign & floor level signs at required all exits. (Both building)	Provide occupant load sign, stair & floor designation signs at required locations.	Within 1 month
F-9	Fire Rated Construction	Storage on 3rd floor at building-7 discharges directly into the exit stair enclosures.	Openings from exit enclosure to storage room, generator and hazard 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, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months



F-10	Fire Rated Construction	Elevator shaft opening in the factory floor without fire separated. (Building 7)	Separate all elevator shaft from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors/lift landing doors to maintain the fire fire separation from floor and exit enclosures.	Within 3 months
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Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies (if applicable).

If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.



F-11	Fire Rated Construction	Exterior exit stair is not properly separated from the buildings. (Both building).	Exterior exit stairs shall be separated from the building with a rating requirement of 1-hr fire rating for 3 or fewer stories and 2-hr fire rating for 4 or more stories. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	Within 6 months
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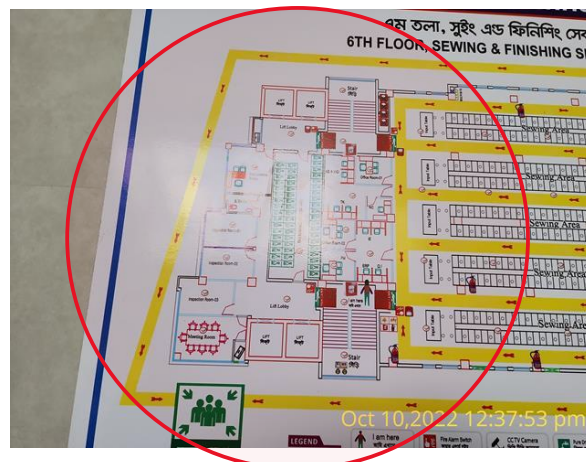


F-12	Fire rated Construction	Dining area is not separated from other occupancies with fire rated assemblies. (At building-7 top floor).	Re-locate the dining area or separate the dining area from other occupancies with 3-hr fire rated construction. Provide required exits that lead directly to the street or exit stairwell. This only applies for E3-small assembly occupancy (less than 300 person). Large assembly occupancy (E4) is not permitted as per Table 3.2.1, BNBC 2006.	Within 3 months
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F-13	Egress	A single means of egress is provided from north portion at the building-7. The building has 4 exits however floor layout and partition creates single exit scenario.	Ground or basement story is allowed a maximum of 50 occupants and 23 m (75ft) travel distance. The second story is allowed a maximum of 30 occupants and 23 m (75ft) travel distance. All other stories require a minimum of 2 egress exits. Reconfigure the egress arrangement of building-7 to meet the above requirements.	Within 3 months
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F-14	Fire Rated Construction	Exit stairs are not separated from ground floor by fire-rated construction. (Building 8)	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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
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F-15	Fire Rated	Lift machine rooms not separated from exit stair enclosures. (Building 7)	Separate lift machine rooms by minimum 2-hr fire rated construction.	Within 2 months
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F-16	Fire Rated Construction	Unsealed utility pipe shaft/penetration is located in the fire-rated floor/ceiling assemblies	Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in accordance with ASTM E814 in accordance with RSC standard 4.7.	Within 2 months
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