INITIAL FIRE SAFETY INSPECTION REPORT

Sewtech Fashions Limited

RSC ID: 24504

SFB# 10 FACTORY BUILDING, FACTORY BAY AREA,CEPZ, CHITTAGONG

22.291352, 91.778089

Other Factories: No

RSC | RMG SUSTAINABILITY COUNCIL

Inspected By: Md. Hasibur Rahman Abir & Md. Khalaquzzaman

Date: 15 December 2022

Fire Safety Inspection Report

Sewtech Fashions Limited

Introduction:

Sewtech Fashions Limited (RSC ID: 24504) complex was surveyed for fire safety on 15-December-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.

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 :

Summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline. 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.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor due to unprotected openings (door coordinator was not properly functional), penetrations (due to switch board) and clearance under the bottom of several doors were more than 3⁄4 in. (19 mm).	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction. (Penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure.). Openings from exit enclosures to storage areas shall be provided with vestibules. 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. The clearance under the bottom of a door shall be a maximum of 3⁄4 in. (19 mm).	Within 3 months


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F-2	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location(s): Electric cable riser & plumbing pipe.	Seal all penetrations and openings in floor/ceiling assemblies with a listed fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain a minimum fire resistance rating of 3-hr. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the required fire-rating. or, Provide a minimum fire-resistance rating 2-hr fire rated shaft enclosure to separate the utility risers from each floor as per RSC Technical Guidelines (Standard)[1] V1.0 Section 4.5.7. .	Within 3 months
				

F-3	Fire Rated Construction	Generator room is not properly separated by fire rated construction with other Occupancies/Areas.	Generator room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location. Or Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.	Within 3 months
				

F-4	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Ground Floor.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m² and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. or, 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, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				
F-5	Fire Rated Construction	The fire pump room is not provided with adequate fire separation.	Provide fire pump room with 1 hr rated fire separation in accordance with NFPA 20 Or, Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20.	Within 3 months


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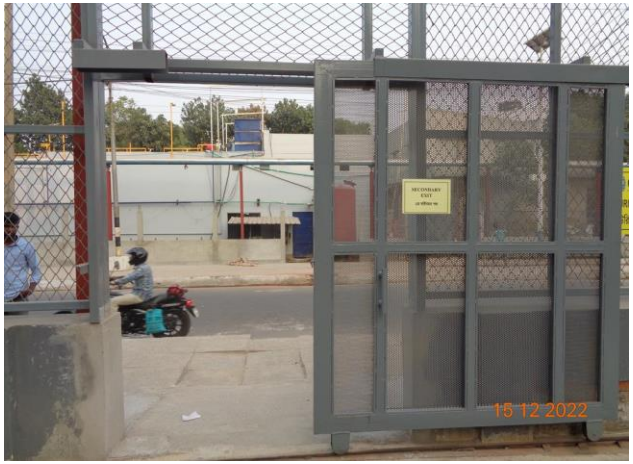
F-6	Fire Rated Construction	All the elevators open inside the staircase.	An exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure.	Within 3 months

F-7	Means of Egress	Sliding type door have provided along means of egress at S-E exit discharge.	All doors in a means of egress shall be of the side-hinged swinging type. Roll--down and sliding gates and shutters shall not be allowed. Doors serving an occupant load of more than 50 shall swing in the direction of egress travel.	Within 1 month
				

F-8	Means of Egress	The exit discharge path serving the exit stair-1 was less than 10 ft wide and were not separated from the building interior.	Egress courts less than 3050 mm (10 ft) in width (as measured from the building and the adjacent property line) shall be provided with walls having a 1-hr fire resistance rated construction for a distance of 3050 mm (10 ft) above the floor of the court.	Within 3 months
				

F-9	Means of Egress	The width of egress aisles is less than 36-in. on the 3rd floor.	Provide minimum aisle widths of 36-in.	Within 3 months
				

F-10	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 months
				

F-11	Egress Lighting	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-12	Inspection, testing, and maintenance (ITM) of Emergency Lighting	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard) V1.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) V1 standard. Keep written records onsite.	Within 2 months
F-13	Fire Alarm System	Fire alarm and detection system installation complete which requires detailed review to confirm compliance with NFPA 72 and 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 building 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 within 1 month and modification/ installation with 3 months
				

F-14	Fire Suppression System (SUPS)	The highest occupied floor of existing building is more than 10 m (33 ft.) above grade where class III standpipe system is mandatory, and the factory has installed sprinkler system along with Class-III standpipe system which is required to be reviewed and verified.	Submit the fire suppression system (fire pump, standpipe & standpipe) design and documents to RSC for review. Once the design is reviewed, install and modify the fire suppression system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 13, 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 within 1 month and modification/installation with 3 months
				
F-15	Inspection, Testing and Maintenance (ITM) of FADS.	Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with standard.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Within 5 months
F-16	Inspection, Testing and Maintenance (ITM) of Standpipe system.	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system in accordance with NFPA 25 and keep written records on-site.	Within 5 months

F-17	Inspection, Testing and Maintenance (ITM) of fire pump system.	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump in accordance with NFPA 25 and keep written records on-site.	Within 5 months
F-18	Inspection, Testing and Maintenance (ITM) of fire sprinkler system.	Inspection, testing, and maintenance for the fire sprinkler is not in accordance with NFPA 25.	Inspect, test and maintain the fire sprinkler in accordance with NFPA 25 and keep written records on-site.	Within 5 months