

INITIAL FIRE SAFETY INSPECTION REPORT

Baridhi Garments Ltd. (Extension)

RSC ID: 24832

SFB#8, Cumilla EPZ, Cumilla-3500, Cumilla

23.99009N,90.38475E

Other Factories: None



Inspected By: Md. Rakibul Alam & Md. Jahidul Kabir

Date: 25 July 2023

Fire Safety Inspection Summary Report

Introduction:

Baridhi Garments Ltd. (Extension) was surveyed for fire safety on **25/07/2023** 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 :

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 rooms at all the floors, Including the Ramp's(as it is used to store combustible materials) discharges directly into the exit stair discharge. (All dedicated stores including ramp).	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, substation room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 Months
				

F-2	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: 1st floor, 2nd floor & 4th floor	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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction. Areas shall limit within 10% of entire floor area	Within 3 Months
				

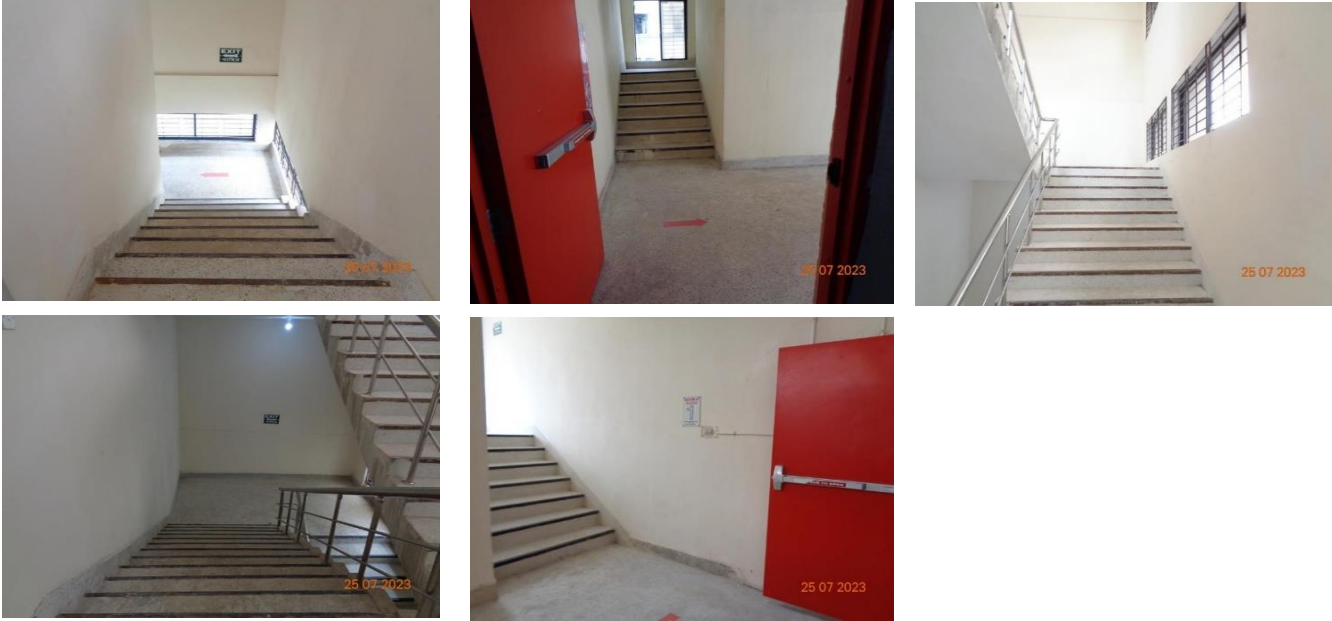
F-3	Fire Rated Construction	Elevator shafts are directly open into the inside of North-East Exit Stair.	In new and interim construction, an exit stairway shall not be built around a lift shaft unless both of them are located in a smoke proof enclosure and made of a material with fire resistance rating required for the type of construction of smoke proof enclosure as per RSC-6.14.3. So, separate the stair enclosure from elevator shaft throughout the building. There is a variety of opening protective types i.e., fire rated lift landing doors, fire doors, fire rated curtain combination for both heat & smoke control with integration with fire alarm control panel	Within 3 Months
				

F-4	Fire Rated Construction	Unsealed utility pipes, electric riser penetration located in the fire-rated floor/slab/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 3 Months
				

F-5	Fire Rated Construction	Exit doors are provided with 2 hr fire rated doors however fire door accessories are not working as required, vision panel broken and few are not completed yet. Also office room not separated in exit discharge lobby.	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 (10" wall). 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. 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 RSC 6.8.3.1.	Within 3 months
				

F-6	Means of Egress	Proper certification was not provided for fire rated doors installed in the factory.	Submit proper certifications for installed fire doors during inspection for approval. If not available , or certification is not approved , install new, properly certified fire rated doors in accordance with RSC guideline.	Within 1 Month
F-7	Means of Egress	A single means of exit has been provided. Location: Cut Panel Room, 4th floor Training Room, GF	Provide additional exit.	Within 1 Month

F-8	Means of Egress	Storage was located in exit stairs & aisles.	Remove all storage from exit stairs & aisles. Keep egress paths & stairs clear of storage.	Immediately.
		 	 	 

F-9	Means of Egress	Handrails are not provided on both sides in the exit stair & height was not according to standard.	Provide handrails on both sides of the exit stair. New and interim 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.)	Within 3 Month
				

F-10	Means of Egress	Doors along means of egress are provided with non compliant locking system.	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediately.
		 		

F-11	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 1 Month
 				
F-12	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 RSC Technical standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical standard. Keep written records on-site.	Within 1 Month

F-13	Egress Lighting	Illuminated 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 1 Month
F-14	Fire Alarm and Detection System (FADS)	The fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and RSC technical guidelines (standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Once reviewed, install or modify the fire detection and alarm system (where required) throughout the building in accordance with RSC technical guidelines (standard) and NFPA 72. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design- 2 month, modification if required - 3 months.

F-15	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and RSC standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Once reviewed, install or modify the system (where required) throughout the building in accordance with RSC technical guidelines (standard) and NFPA 14. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design- 2 month, modification if required - 3 months.
F-16	Fire Protection System(Standpipe)	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and RSC standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Once reviewed, install or modify the system (where required) throughout the building in accordance with RSC technical guidelines (standard) and NFPA 20. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design- 2 month, modification if required - 3 months.

F-17	Human Element program	Fire drill are not performed as required.	Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A	Within 1 months
F-18	Human Element program	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 Month