

INITIAL FIRE SAFETY INSPECTION REPORT

Garments Manufacture JINLITE Bangladesh Ltd

RSC ID: 24937

PLOT# 141-147, Mongla EPZ, Mongla, Bagerhat.
22.493398, 89.605694

Other Factories: N/A



Inspected By: Ahammad Kabir & Tanvir Jubayer Rahman

Date: 15/02/2024

Fire Safety Inspection Report

Factory Name: Garments Manufacture JINLITE Bangladesh Ltd

Introduction:

Garments Manufacture JINLITE Bangladesh Ltd complex was surveyed for fire safety on 15 February 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):

1. Building - 1: Production Building (Shed 01), single storied steel shed with 2 mezzanines
2. Building - 2: Storage Building (Shed 02), single storied steel shed with mezzanine
3. Building - 3: Canteen Building, 2 storied RCC Building.
4. Building - 4: Security Building, single storied RCC building
5. Building - 5: Sub-Station Building, single storied RCC building
6. Building - 6: Medical and Daycare Building, single storied RCC building
7. Building - 7: Fire Pump Room, single storied RCC building

Factory Address: PLOT# 141-147, Mongla EPZ, Mongla, Bagerhat.

Points of contact:

1. Name: Mr. Zhang Yong

Designation: General Manager

Contact No: 01760522222

Email: zhangyong_083@163.com

2. Name: Md. Masud Shaikh

Designation: Manager (HR & Compliance)

Contact No: 01724979080

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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:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction.	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.	Within 3 months



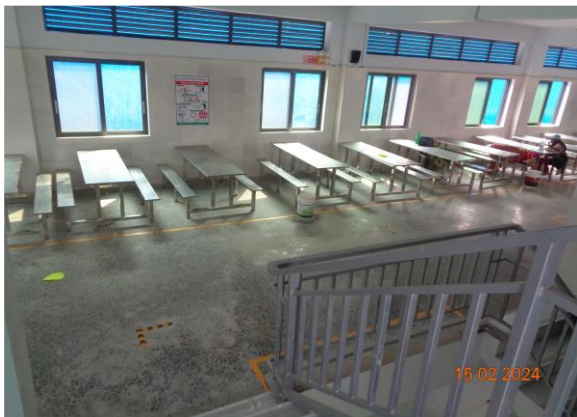
2	Fire Rated Construction	Fire doors have been installed whose fire rating certificates are required to be furnished. Doors are fire rated reported by management where credibility shall be ensured (credible 3rd party certificates and certification tag/mark). Location: All buildings and sheds	Ensure the required fire rating for all the doors. Collect the technical datasheet, certificate & keep on site for review	Within 3 months
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3	Fire Rated Construction	The main structural elements of factory buildings are constructed by steel which is non-rated structure and were found in exposed condition without any fire protection. Location: Shed 2.	For new construction, the building shall be Group 1 or Group 2 construction as required in BNBC 2020 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2020-Table 3.2.4, 3.1.7 and 3.3.1 Submit the design, datasheet, certificate, and the design-philosophy to the RSC for review prior to install the passive fire protection system.	Within 6 months
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4	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location: Canteen Building	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
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5	Means of egress	The width of the exit stair is less than 1.5 m (60 in.). Location: Canteen 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
6	Means of egress	Handrails are not provided on both sides of exit stair. Location: Shed 1, 2 & Canteen Building	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.	Within 3 months

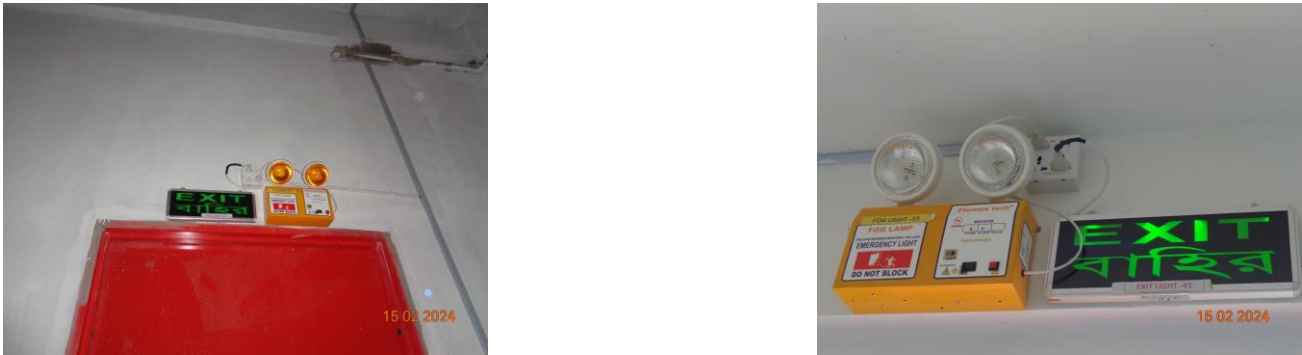


7	Means of egress	Building did not have stair designation signs and occupant load signs at required locations on all floor. Location: Canteen Building, Shed 1 & 2.	Provide stair designation signs and occupant load signs at required locations.	Within 1 month
8	Means of egress	Exit stairs do not discharge directly to the outside. Location: Canteen Building	Modify stair to discharge directly outside. Or 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 meeting RSC 6.17.3 (all 4 options shall meet).	Within 3 months



9	Means of egress	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
				

10	Means of egress	Walking surface were not found level from exit discharge of all stairs and are not protected from slip or tripling hazard.	Provide a level walking surface in exit discharge in accordance with 6.3.4 of RSC Technical Guidelines (Standard).	Within 3 months
				
11	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Shed 01, 02 & canteen building.	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
12	Egress 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 3 months

13	Egress Lighting	Manual on-off switch is provided for emergency lighting / exit signage units. Location: All sheds and buildings.	Remove manual on/off switches from emergency lighting/exit signage units to prevent them from being switched off	Within 1 month
				
14	Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed. Location:	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



15	Inspection Testing and Maintenance of Portable Fire Extinguisher.	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.	Within 3 months
16	Fire Alarm & Detection System (FADS)	Fire detection system installation requires detailed review to confirm compliance with NFPA72 and in accordance with The RSC Technical Guidelines (Standard).	Submit design, drawings and other relevant documentation to the RSC for review. Replace the fire detection system with a new, listed addressable fire detection system in accordance with NFPA 72.	Design within 1 month and installation within 3 months

					
17	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	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 1 month (after installation completed).