

INITIAL FIRE SAFETY INSPECTION REPORT

Dhaka Garments & Washing Ltd (Extension)

RSC ID: 25491

Dakkhin Vangnahati Sreepur Gazipur

Google Coordinate: 24.192506, 90.457842

Other Factories: Dhaka Garments & Washing Ltd (RSC ID: 23920)



Inspected By: Mahfuza Khanom

Date: 18 February 2024

Fire Safety Inspection Report

Dhaka Garments & Washing Ltd (Extension)

Introduction:

Dhaka Garments & Washing Ltd (Extension) complex was surveyed for fire safety on **18/02/2024** 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): There are total 2 structures in the premises under this ID. Those are :

- 1. Chemical Building: 2-storied RCC Building**
- 2. Utility Building Extension: Single storied RCC Building (Proposed for 3-storied)**

Factory Address: Dakkhin Vangnahati Sreepur Gazipur.

Points of contact:

Shahi Md. Salim Hossain AGM (Admin, HR & Compliance) Contact No: 01730-304084 Email: shahi.salim@hams.com.bd	Engr. Mahtab Uddin Ahmed DGM (Maintenance & Utility) Contact No: 01730-304334 Email: mahtab.uddin@hams.com.bd
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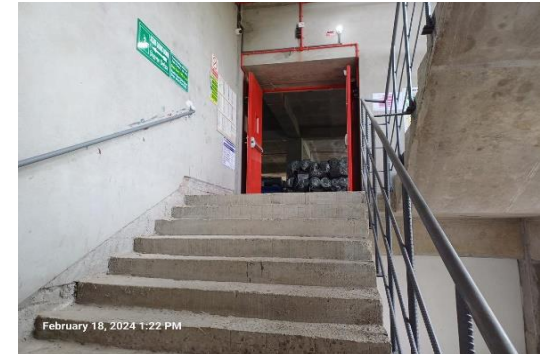
Findings & Recommendations :

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 review.

Table-1:

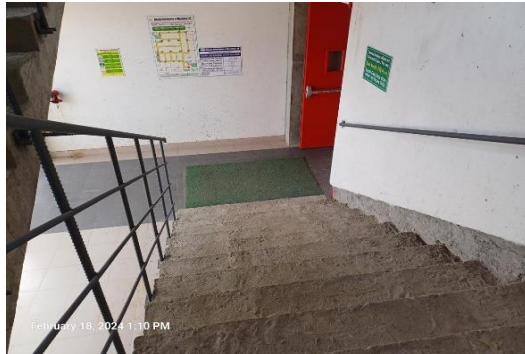
SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Chemical Building Chemical storage area in Chemical Building is not properly separated by fire-rated construction due to openings & penetrations with Fabric Store 1st floor due to lift shaft and exit enclosure opening.	Separate the chemical storage room by 4-hr fire rated construction with G and H occupancies. Seal all penetrations and protect the openings to maintain the required fire separations for 4-hrs. Opening is not permitted for 4-hrs fire rated separation as per Table 3.2.3 of BNBC-2020. Keep 16-points SDS of all chemicals in the storage area. Note: Construction type shall be Group-I and separation shall be as per Table 3.2.1 of BNBC-2020.	Within 3 months
 				

F-2	Fire Rated Construction	Chemical Building The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. Ensure the fire resistance rating as per BNBC for exit stair enclosure.	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. Additionally, follow the Table 3.3.1 (a) for additional impact resistance requirements applicable to certain stair enclosures and for certain exceptions to stair enclosure requirements. 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. Proper documents shall kept on site for fire door, frame & accessories for verification.	Within 3 months
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F-3	Fire Rated Construction	Chemical Building Store room discharged directly into the exit stair enclosures without vestibules.	Openings from exit enclosure to storage room, shall be provided with a vestibule with 2 -hr fire rated construction and openings. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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F-4	Fire Rated Construction	Utility Building Extension Boiler or furnace room is not properly separated by fire rated construction with other occupancies/areas.	Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) 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. And, maintain a minimum 3m (10 ft.) where located exterior to the building.	Within 3 months
				
F-5	Means of Egress	Chemical Building Handrails/Guards are not provided as per The RSC Technical Guidelines (Standard) V1-3.4.2.1.5. Handrails are not provided both sides of exit ramp.	Provide handrails on both sides of the exit stair and ramp. 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. 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 1 month

 				
F-6	Means of Egress	Utility Building Extension The height of the East side pocket door is found less than 2 m (1.93 m).	The width of a door shall not be less than 1 m and the height shall be not less than 2 m.	Within 1 month
				

F-7	Means of Egress	Utility Building Extension Egress door serving in hazardous occupancy but does not swing in the direction of egress travel.	Modify swing direction of egress doors to the direction of egress travel. Doors serving an occupant load of more than 50 or in a hazardous occupancy shall swing in the direction (out-ward) of egress travel according to PART IV Chapter 3 BNBC-2020.	Within 1 month
				

F-8	Means of Egress	Utility Building Extension Parapets or guards are not provided as per The RSC Technical Guidelines (Standard) V1-3.4.2.1.5 in occupiable roof.	Provide parapets or guards with a minimum height of 1067mm (42 inch.). 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 1 month
				

F-9	Egress Lighting (ITM)	Chemical Building & Utility Building Extension Inspection, testing and maintenance for the 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-10	Fire Alarm and Detection System	Chemical Building & Utility Building Extension The fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and RSC technical guidelines (standard) (For all structures).	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- within 2 months Installation/ Modification-within 4 months



F-11	Fire Alarm and Detection System (ITM)	Chemical Building & Utility Building Extension Inspection, testing and maintenance for the fire detection and alarm system was not in accordance with NFPA 72.	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
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F-12	Fire Protection System (ITM of Fire Extinguisher)	Chemical Building & Utility Building Extension 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 1 month
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