

INITIAL FIRE SAFETY INSPECTION REPORT

BABYLON GARMENTS AND DRESSES LTD (Extension)

RSC ID: 24766

2-B/1, DARUSSALAM ROAD, MIRPUR, DHAKA

Google Coordinate: 23.783567,90.351708

Other Factories: BABYLON GARMENTS AND DRESSES LTD [ID: 9562]



Inspected By: Mahfuza Khanom

Date: 24 December 2023

Fire Safety Inspection Report

BABYLON GARMENTS AND DRESSES LTD (Extension)

Introduction:

BABYLON GARMENTS AND DRESSES LTD (Extension) complex was surveyed for fire safety on **24/12/2023** 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.

General Factory Information

Factory Building name(s): There are total 4 structures in the premises under this ID. Those are :

1. Store Building, per floor area 1162.76 sq meter, 3-storied steel structure and top floor roof is constructed of shed, building height 54'-4".

Design Approved by RAJUK (Dhaka) on 31 January 2018.

Construction Period Interim.

2. Daycare Shed, it is a single storied shed (area 83.61 sqm). Construction date for this shed is Feb, 2018-May, 2018 and occupied on Feb, 2019.

3. Wastage Shed, it is a single storied shed (area 69.58 sqm). Construction date for this shed is Feb, 2018-Jun, 2018 and occupied on Feb, 2019.

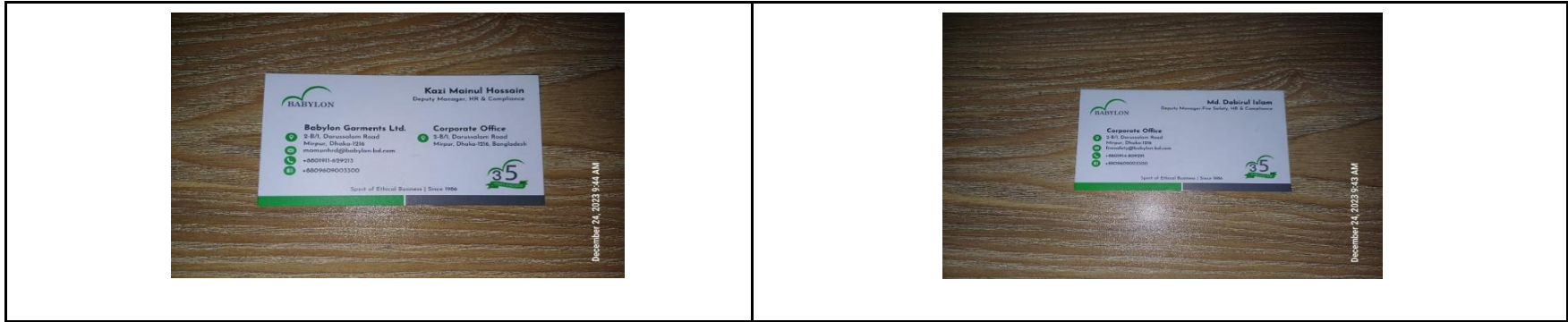
4. Kitchen Shed, it is a single storied shed (area 30.6 sqm). Construction date for this building is Feb, 2018-Apr, 2018 and occupied on Feb, 2019.

Factory Address: 2-B/1, DARUSSALAM ROAD, MIRPUR, DHAKA.

Points of contact:

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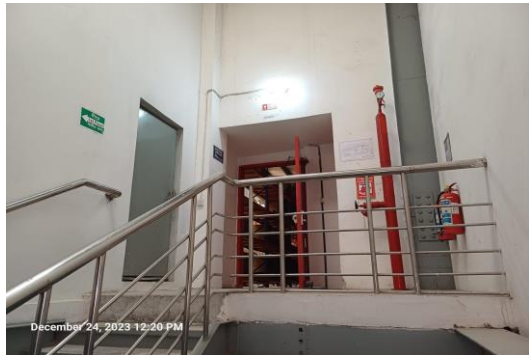
Findings & Recommendations :

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.

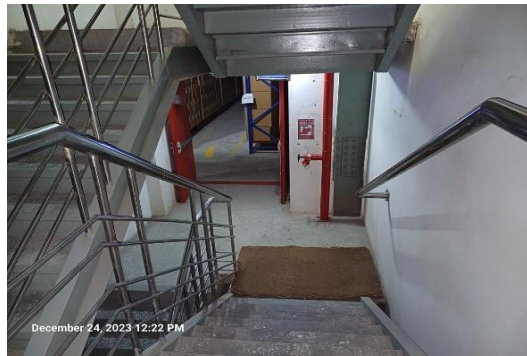
Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	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 barrier construction.	Within 3 months
 				

F-2	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction.	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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F-3	Fire Rated Construction	Store room discharged directly into the exit stair enclosures.	Openings from exit enclosure to storage shall be provided with a vestibule with fire rated construction and openings. Provide a 1 hr. fire rated door on the exit stair side and a 1- hr. fire rated door on the storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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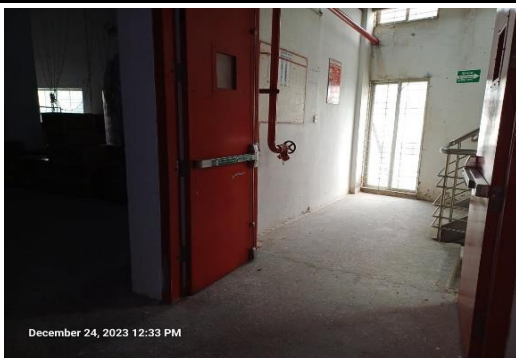
F-4	Fire Rated Construction	Lift discharges inside work floor which are without fire rated separation.	Separate the lift from work place by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
 				
F-5	Fire Rated Construction	The main structural elements of store building (H2) are constructed by steel and other Sheds are non-rated structure and were found in exposed condition without any fire protection. As per RSC Technical Guidelines (Standard) 1.5.4 this building is defined as an interim building so, fire protection shall be provided for the structural elements of the building following section 3.5.2 of RSC Technical Guidelines (Standard) V1.0.	For interim construction, the building shall be Type 1 or Type 2 construction as required in BNBC 2006 Part 3 Table 3.2.4. So, provide require rating for the structural elements of the building following BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1	Within 6 months

 				
F-6	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months
 				

F-7	Fire Rated Construction	The exit discharge path [serving West exit] is less than 10 ft wide and is not separated from the building interior.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft., to provide a minimum 1-hr fire separation. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 3 months
 				
F-8	Fire Rated Construction	Cooking operations are observed at Kitchen Shed.	Cooking operations that produce grease laden vapors shall be prohibited unless ventilation and a fire protection system is provided in accordance with NFPA 96.	Within 3 months



F-9	Means of Egress	Building did not have stair designation signs or occupant load signs at the required locations. Stair designation sign is found most of the places, but missing in a few locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month
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F-10	Means of Egress	Fire evacuation maps is not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
				
F-11	Means of Egress	Aisles mark is not provided at Store Building.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 1 month



F-12	Means of Egress	Stair riser height observed more than 8.5 in.	Stair treads shall be of nominal uniformity. Stair riser shall be in accordance with RSC Technical standard 6.9.2.3.	Within 3 months
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F-13	Means of Egress	Width of new exit stair (stair-1 & 2) is less than 1.5m (60in.).	Provide minimum clear and unobstructed exit stair width of 1.5 m (60 in.) in accordance with RSC Technical standard 6.5.6.2.1.	Within 3 months
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F-14	Means of Egress	Uneven walking surface were found from exit discharge of West Stair in Store Building.	Provide an even level walking surface in exit discharge in accordance with 6.3.4 of RSC Technical Guidelines (Standard_V1.0).	Within 3 months

 				
F-15	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 3 months



F-16	Egress Lighting	Exit signage not illuminated during testing (burned out, broken, etc.).	Regularly inspect all exit signage as per Accord standard and replace/install lights as needed to illuminate signs.	Within 1 month
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F-17	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 1 month

F-18	Egress Lighting (ITM)	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 3 months
F-19	Fire Alarm and Detection System	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- within 2 months Installation/ Modification-within 4 months



F-20	Fire Alarm and Detection System (ITM)	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-21	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.	Design- within 2 month Modification if required- within 4 months
 The row contains three photographs documenting fire protection installations. The first photo on the left shows a red 'Landing Valve' with a black handwheel and a sign above it. The middle photo shows a red 'FIRE HYDRANT HOSE BOX' mounted on a wall. The third photo on the right shows a complex fire pump assembly with various pipes, valves, and a red fire hose reel.				

F-22	Fire Protection System (ITM of Standpipe)	Inspection, testing, and maintenance for the standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the fire pump and standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 1 month after installation
F-23	Fire Protection System (ITM of 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 1 month

