

FIRE SAFETY INSPECTION REPORT

KC Lingerie Ltd. (Unit-02)

Factory ID: 24068

57/1 Water Works Road, Godnail, Narayangong 1400

Other Factories: N/A

23.6406 , 90.5139



Inspected By: Monsurul Akram Azim & Md. Hasibur Rahman Abir

Date: 23-Feb-2021

Fire Safety Inspection Report

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Introduction:

KC Lingerie Ltd. (Unit-02) complex was surveyed for fire safety on **23-Feb-2021** 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 approval.

Table-1:Findings & Recommendations

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire-rated construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction due to unsealed penetrations and openings.	Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5-hr fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 3/4 in. (19 mm). Ensure that the fire doors are self-closing, positive latching and that they are provided with fire exit (panic) hardware where serving production floors. Provide vestibules to separate the storage areas. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system. 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.	Within 3 months



2	Fire-rated Construction	Penetrations due to electrical riser through floor/ceiling assemblies are found unsealed.	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by third-party certified fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
 				

3	Fire-rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: 1st floor and 4th 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 2 months
				

4	Egress	Elevator open into the exit stair enclosure. Location: From 1st floor to 5th floor.	Modify/Separate the elevator and stair enclosure arrangement in a way to satisfy Accord building standard 6.14.3 and 4.5.3	Within 3 months
 				

5	Egress	Doors along means of egress are provided with non compliant locking system. Location: 1st floor and ground floor	Remove locking features from all egress doors / gates. If locks are required for security reasons, utilize special door locking features complying with Accord building standard 6.8.2 & NFPA 101.	Immediately
 				

6	Egress	Storage was located inside the exit stair enclosure.	Remove all storage from exit stairs. Exit stairs shall be unobstructed and free from storage & obstruction.	Immediately
 				

7	Egress	The egress court along means of egress has interrupted by obstruction/storage. In addition to that LPG cylinder was also observed on the egress court.	Egress path shall be unobstructed and free from storage & obstruction. and The storage or use of liquefied or compressed flammable gas cylinders shall be prohibited within the factory building and shall not be permitted in any location where such storage would jeopardize egress from the structure.	Immediately
				

8	Egress	Width of aisles is less than 0.9m (36-in.). Location: 5th floor	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	With in 2 months
				

9	Egress	The egress court serving the exit stair-2 was less than 10 ft wide and were not separated from the adjacent fabric store.	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 2 months
				
10	Egress	Headroom clearance was less than 2.03 m (6 ft 8 in.) at mezzanine floor egress path (exit access).	All means of egress shall have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.).	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: 5th floor.	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
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12	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
				

13	Egress Lighting	Exit signage not illuminated at Mezzanine floor.	Lighted exit signs shall be placed at entrance to an exit.	Within 1 month
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14	Fire Alarm System	The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified. Single-station smoke alarm system was also installed in the building.	Remove single-station smoke alarms and submit as-built drawings, battery and voltage drop calculations, equipment certification and other relevant documentation of the addressable system to the RSC for review and approval, modification (if required) shall have to done as per the reviewed design and NFPA-72. & Upon approval & modification (if required) the owner shall verify the system by RSC for final acceptance.	Design within 1 month and installation/modification within 4 months
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15	Fire Protection	The highest occupied floor of existing building is more than 10 m (33 ft.) above grade where Class III standpipe system is mandatory and factory has Class III standpipe which is required to be reviewed and verified.	Submit as-built drawings, hydraulic calculation, equipment certification and other relevant documentation to the RSC for review and approval, modification (if required) shall have to done as per the reviewed design and NFPA- 14, 20, 22 and 24. & Upon approval & modification (if required) the owner shall verify the system by RSC for final acceptance.	Design within 1 month and installation/modification within 4 months
 				