

INITIAL FIRE SAFETY INSPECTION REPORT

NKM Fashion Limited

RSC ID: 25979

Geographical Coordinates: 23.939313121330798, 90.09185261434612

Address: Baliapara Jalsha, Jalsha, Dhamrai, Dhaka-1800, Bangladesh.

Other Factories: None



Inspected By: Muntasir Ahmad Nasif & Hamed Mustakim

Date: 02-February-2025

Fire Safety Inspection Report

NKM Fashion Limited

Introduction:

RSC ID : 25979

NKM Fashion Limited complex was surveyed for fire safety on **02-Feb-2025** 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

There are total 7 structures covered under this RSC ID 25979. Among these one structure is for production and other six structures are ancillary. The buildings are as below:

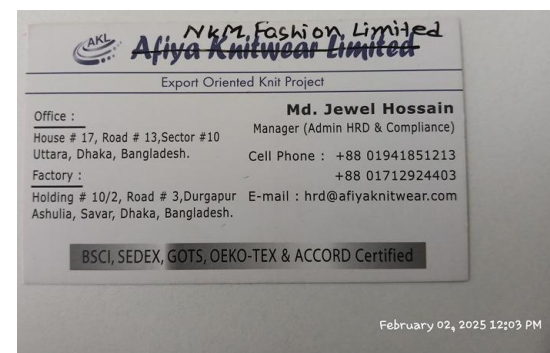
SL No	Building Name	Building Construction Period	Approval Date & Authority	Occupied	Structure type	Construction Category
1	Production Building	Jan-2022 to Jan-2024	Approved from LGED DHAKA on Oct-2024	May-2024	RCC (G+2)	New
2	Admin Building	Jan-2023 to Mar-2024		May-2024	RCC (G+2)	New
3	Utility Building	Jan-2022 to Mar-2024		May-2024	RCC (G+1)	New
4	Fire pump room	Jan-2023 to Dec-2023		May-2024	RCC (Single storied)	New
5	Security room	Jan-2023 to Dec-2023		May-2024	RCC (Single storied)	New
6	Wastage shed	July-2024 to Nov-2024		Dec-2024	Steel (Single storied)	New
7	Diesel room	July-2024 to Nov-2024		Dec-2024	RCC (Single storied)	New

Factory Address: Baliapara Jalsha, Jalsha, Dhamrai, Dhaka-1800, Bangladesh.

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.

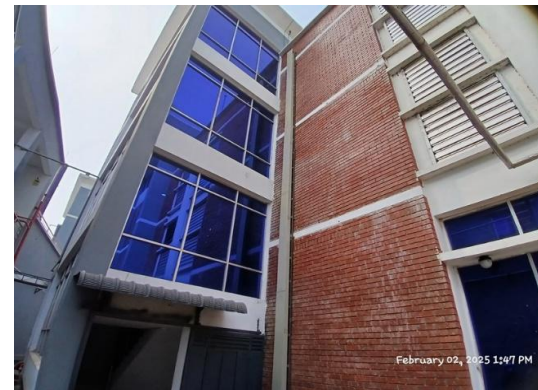
Table-1: All structures under this ID

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the production area. Location: Ground and 1st floor at Production Building	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4 m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². 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.	Within 2 months
 				

F-02	Fire Rated Construction	Unsealed penetrations are located in the fire rated floor/ceiling assemblies due to electrical riser (BBT) and plumbing plastic pipe on each floor at several locations. Location: Production building	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain minimum 3-hr. fire resistance rating. Installation shall be as per manufacturer published installation guideline and the certification authority guideline to ensure the fire-rating. or, Provide a minimum 2-hr fire rated shaft to separate the penetration from each floor if required.	Within 3 months
 				

F-03	Fire Rated Construction	Unprotected openings in the exterior wall were observed on two consecutive floors, located within 1.5 meters either laterally or vertically, without proper separation. Location: East side of Production building	Unprotected openings in the exterior wall in two consecutive floors lying within 1.5 m laterally or vertically shall be separated with flame barriers as similar as sunshades or cornices or projected wall at least 750 mm from the external face of the exterior wall. The flame barrier shall have a fire resistance rating of not less than three-fourths hour as per BNBC 2020, section: 3.1.9.2	Within 3 months
 				

F-4	Means of Egress	The exit stair enclosures were not properly separated from work areas and other spaces on each floor due to partially non-functional fire doors. Additionally, electrical cable riser found at South exit stair. Location: Production Building and Utility 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 1 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated construction barrier 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. (vestibules to separate any storage areas). Re-route the cable raceway to comply RSC Technical Guidelines(Standard)- 6.14.4. 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-5	Means of Egress	Doors in a means of egress have a minimum width less than 39 in. (35inch observed). Location: North East Stair at Ground floor of Production Building	Doors in a means of egress shall have a minimum width of 1 m (39 in.).	Within 3 months
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F-6	Means of Egress	Stair width inadequate less than 60inch (i.e.: North west- 58inch, South - 58inch) Location: Production Building	In new and interim construction, constructed stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 3 months
				

F-7	Means of Egress	Storage rooms discharges directly into exit stair enclosure on 2nd floor. Location: Production Building	Openings from exit enclosure to storage and machine room 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 storage and machine room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width of a vestibule shall not be less than 1.1 m nor less than the width of the corridor leading to the vestibule. The minimum length of a vestibule in the direction of escape travel shall be 1.8 m.	Within 3 months
 				

F-8	Means of Egress	The exit discharge path serving the North exit of ground floor were not separated from the building interior. Location: Ground floor of Production Building	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. 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 3 Months
				
F-09	Means of Egress	The exit discharge path serving the North exit stair were not separated from the building interior. Location: Ground floor of Admin Building	An egress court serving as a portion of the exit discharge shall be open to the sky or provided with a fire resistance rated enclosure the same as the exit enclosure. 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.	



F-10	Means of Egress	Stair width inadequate less than 60inch (i.e.: North and South- 52 inch) Location: Both exit stairs of Admin Building	In new and interim construction, constructed stairs shall have a minimum width of 1.5 m (60 in.) for all industrial occupancies in accordance with RSC standard 6.5.6.2.1	Within 3 months
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F-11	Means of Egress	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
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F-12	Means of Egress	Exit sign was not provided at all required 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-13	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Production Building	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
 				

F-14	Means of Egress	Building did not have occupant load signs at required locations.	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	Within 1 month
F-15	Means of Egress	Building did not have stair designation signs at required locations.	Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month
 				

F-16	Means of Egress	Updated Fire evacuation map is not posted and updated at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair. Evacuation map shall reflect the actual floor condition.	Within 1 month
 				
F-17	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the exit sign and emergency lighting system were not in accordance with the RSC Technical Guidelines (Standard).	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month

F-18	Fire Alarm & Detection System (FADS)	The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit proposed the fire alarm system design to RSC for review. Once the design is reviewed, install the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the factory shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with Table-14.3.1 of NFPA 72.	Design Review within 2 months and installation/modification within 4 months.
 				

F-19	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72 and The RSC Technical Guidelines (Standard).	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and The RSC Technical Guidelines (Standard) and keep written records on-site.	Within 1 month (after installation)
F-20	Inspection, Testing & Maintenance (Fire)	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 and RSC Technical Guidelines (Standard).	Within 1 month