INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: AKH FASHIONS LTD (EXTENSION)

RSC ID: 25869

ADDRESS: 133-134 Hemayetpur, Savar.

Co-ordinate: 23.793990, 90.273278

Other Factories: AKH FASHIONS LTD(9262), AKH Apparels Ltd (9664), Angshuk Ltd.(9819), AKH Shirts Ltd. (Unit 3)(9968), AKH Apparels Ltd (Extension)(24745)

RSC RMG SUSTAINABILITY COUNCIL

Inspected By: Md. Sadid Rahman

Date: 15-Dec-2024

Fire Safety Inspection Report

Factory Name: AKH FASHIONS LTD (EXTENSION)

Introduction:

AKH FASHIONS LTD (EXTENSION) complex was surveyed for fire safety on 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 is 1 (one) building covers under the ID- 25869.

SL	Building Name/ Purpose	Construction Time	Construction Period
01	**Building-4 (Finished Goods Storage Building) / Dining, office, Medical and Store**	*Apr-2022 to Jul-2023. Occupy- Nov-2022* *Approved on 08-Mar-2017 for 5 storied from Saver Upazila*	*New Construction*

Reportedly there are other 5 no's of ID's which covers another 17 no's of structure as,

SL	Building Name	Purpose	RSC ID
02	**Building-1**	*10 Storied Building (production)*	*ID- 9262, 9968, 9819*
03	**Building-7**	*Sub-Station*	
04	**Building-8**	*Dise Cutting & RMS*	
05	**Building-9**	*Lab & Security*	
06	**Building-10**	*Utility Building*	
07	**Building-11**	*Sub-Station-2, Outdoor*	
08	**Building-12**	*Fire Pump Room*	
09	**Building-13**	*Boiler*	
10	**Shed-1**	*Driver wafting Room*	

11	**Shed-3**	*Staff Kitchen*	
12	**Shed-4**	*Child Care*	
13	**Shed-5**	*Wastage Shed*	
14	**Building-2**	*6 Storied Building*	*ID-9664*
15	**Building-3**	*4 Storied Building*	
16	**Building-6**	*Compressor Room*	
17	**Shed-2**	*Generator and Fire Control Room*	
18	**Building-2 (Extension Part)**	*6 Storied Building*	*ID- 24745*

Factory Address: 133-134 Hemayetpur, Savar.

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 approval.

Table-1: Building# 04

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Means of Egress	Reportedly, Exit doors are provided with 2 hr. fire rated doors however fire door accessories (door coordinator, door closer, Vision panel) are not working properly and some case damaged. Location: Ground Floor.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2-hr. fire-rated construction. Provide minimum 1.5-hr. fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Replace all damaged hardware by listed product. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system. Factory shall ensure the integrity of the fire rated door through actual datasheet, certificate and listing labeling.	Within 3 months

2	Fire Rated Construction	Dining [I2] has been found on the ground floor of the B-4 where all other floor is used for Storage [H2]. Location- Ground Floor.	As per the BNBC 2022, Table 3.2.1, Dining with the Storage [H2] is not permitted. Relocate the dining from the Building-4.	Within 3 months

3	Fire Rated Construction	Unsealed penetrations and openings due to BBT and Plumbing pipe are located in the fire rated floor/ceiling assemblies. Location: North side of each floor.	seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire-rated listed/certified materials. The installation of such fire-rated materials shall be following certified design. Factory shall ensure that, all the design, datasheet, certificate, and proposed drawing of installation has been reviewed from the RSC prior to install the passive fire protection system (If required). Floor penetrations for electrical busbar, cable, metal plumbing pipes etc. can be protected by concrete, grout or mortar installed the full thickness of the floor, if the penetration area is within 144 sq. inches as per 4.7.1 or 4.7.2 of RSC Technical Guidelines Standard	Within 3 months

4	Fire Rated Construction	The Fire Separation Distance of Building-4 [H2] has been found 8'-6" (2.6m) from 5 storied AKH Packaging and Accessories Office building, which is located on south side of the building. Moreover, distance was 9.5', 18' and 14.5' from boundary, B-10 and B# 1 respectively so that the required fire separation of exterior wall has not been maintained.	Ensure that fire resistance rating of the exterior wall of B-4 has been maintained as per 3.1.7 and Table 3.2.2 of BNBC 2020. Follow the Table- 3.2.3 for opening protection.	Within 6 months

5	Fire Rated Construction	B-4 is connected with B-1 by connecting bridge on 3 different location (Ground, 2nd floor and 4th Floor) where separation has not been ensured due to opening non functional hardware of the fire rated door. Location: 2nd and 4th Floor.	Seal all openings by the required fire rating of the exterior wall as per 3.1.7 and Table 3.2.2 of BNBC 2020. Moreover, factory shall ensure that the maintenance work shall be done for the door hardware and accessories on a regular basis as per NFPA 80 and manufacturer's published guideline. Repair/ replace the hardware and accessories which are not functional or under unauthorized maintenance.	Within 3 months

6	Means of egress	The exit discharge path is less than 10 ft. (2'-11") wide and is not separated from the building interior. Location: South side of the building.	Seal all penetrations and openings by the required fire rating of the exterior wall as per 3.1.7 and Table 3.2.2 of BNBC 2020 where no opening is permitted up to to the height of 10 ft. Moreover, ensure that minimum width of the passage meets Table 4.3.8 (915 mm) of BNBC 2020.	Within 3 months

7	Means of Egress	Parapets or guards are not provided in occupied/occupiable roof. Location: Stair-1 and 2	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 1 Month

8	Egress Lighting	Exit sign with directional arrows are not provided at egress paths on 1st,2nd and 3rd floors.	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 3 Months

9	Fire Rated Construction	Exit stair enclosures are not free from unusual unsealed penetrations and openings (cable raceway/Box of CC Cam, networking cable). Location- Stair-1	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. Remove cable raceway/Box of CC Cam, networking cable from the exit stair enclosures. Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	Within 3 Months

10	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards.	Design & Installation of Fire Alarm & Detection system shall be in accordance with RSC standard and NFPA 72. Submit as-built design, documents and calculations to RSC for review prior installation/modification. After installation/modification, the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design Review within 2 months and installation/ modification within 4 months.
11	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is 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.

12	Fire Protection System(Standpipe & Automatic Sprinkler System)	The high-rise building has an occupied floor greater than 23 meter (75 feet) where required automatic sprinkler protection also has been found installed and requires detailed review.	Submit the design and all other supporting documents of Fire Pump, Standpipe and Automatic Sprinkler System as per NFPA 13, 14, 20, 22 and 24 to RSC for review. Once reviewed, install or modify the Automatic Sprinkler, standpipe and fire pump System throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 13, 14, 20, 22 and 24. After installation/modification of the system, factory shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design Review within 2 months and installation/ modification within 4 months.
13	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.

14	Fire Protection System(ITM of Sprinkler & Standpipe)	Inspection, testing, and maintenance for the automatic fire sprinkler & Standpipe system are not in accordance with NFPA 13,14 and 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 13,14 and 25 or as per RSC standard.	Within 1 Month after installation.
15	Fire Protection System(ITM of Extinguishers)	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 on- site, in accordance with NFPA 10 and RSC standards.	Within 1 Month after installation.
16	Fire Protection System(ITM of Emergency Lighting System)	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 Month after installation.