

INITIAL FIRE SAFETY INSPECTION REPORT

Famkam Fashion Ltd

RSC ID: 24426

Shirir Chala, Bagher Bazar, Gazipur Sadar, Gazipur-1700.

24.169134, 90.414479

Other Factories: Apparel 21 Ltd [ID-9822] and Famkam Printing Ltd [ID-24259]



Inspected By: Md. Ferdaus Jaman and Md. Sadid Rahman

Date: 28-Jun-2022

Fire Safety Inspection Report

Famkam Fashion Ltd.

Introduction:

Famkam Fashion Ltd. complex was surveyed for fire safety on 28-Jun-2022 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 04 structures under this ID [Famkam Fashion Ltd.]

1. Famkam Fashion Building- 3 Storied Composite Building
2. Admin Building- 2 Storied RCC Building
3. Medical Building- 2 Storied RCC Building
4. RMS Building- Single story RCC Building
5. Fire Pump Building

Factory Address: Shirir Chala, Bagher Bazar, Gazipur Sadar, Gazipur-1700.

Findings & Recommendations :

The below table-1 summarizes the major fire safety issues identified during the inspection of all building. 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.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Famkam Fashion Building: The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors and provide vestibules to avoid direct discharge from storage to exit stair enclosure. If fire rated doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC Technical Guidelines (Standard) 6.8.3.1 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



F-02	Fire Rated Construction	Unsealed penetrations and openings (non-rated exterior walls within 3050 mm (10 ft) horizontally and an angle of less than 180 degrees of stair-5) are located in the exit stair enclosures. Location: Stair-3 and stair-4 of Famkam Fashion Building.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months
				

F-03	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: On ground, 1st and 2nd floor of Famkam Fashion Building.	Provide defined storage areas and limit the storage arrangement as follows: - 1. General Condition: Maximum height of 2.4m 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 3 months
				

F-04	Fire Rated Construction	Structural Fire Protection: The building is newly constructed where structural members are constructed by RCC except Mezzanine (Mezzanine is constructed by steel) and have been found in exposed condition without any fire protection. Location: Mezzanine floor of Famkam Fashion Building	Provide fire-resistive rated construction barriers between floors following Section 4.4 and Table 4.4.1 of the RSC Technical Guidelines (Standard) or Table 3.3.1 and Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the rated construction barriers.	Within 4 months
 				

F-05	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Followings are the description of openings or penetrations indicating specific locations: 1. PVC pipes penetrate the floor slabs in toilet block of production building. 2. Air compressor pipes penetrate the floor slabs of production building.	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by 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
				

F-06	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: On 1st floor of Famkam Fashion Building.	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 fire rated barrier construction.	Within 3 months
				
F-07	Means of Egress	Doors are swing out over exit stair landing in the stair-3 of Famkam Fashion Building.	Modify the egress door, door shall not swing out over exit stair landing.	Within 1 month
F-08	Means of Egress	Means of egress have a ceiling height less than 2.03 m (6 ft 8 in.). Location: Steel stair with the mezzane floor of Famkam Fashion Building.	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.). The minimum ceiling height shall be maintained for at least 2/3 of the space or room as long as the remaining area shall be not less than 2.03 m (6 ft 8 in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.).	Within 3 months



F-09	Means of Egress	The exit discharge path of the Northeast an North-west stairwell poses an immediate tripping/drop off hazard. Location: North-east and North-west stair discharge on ground floor of Famkam Fashion Building.	Provide an unobstructed even walking surface for all egress routes.	Within 1 month
 				

F-10	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.). Location: Famkam Fashion Building, Admin Building and Medical Building.	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
 				

F-11	Means of Egress	Handrails are not provided on both sides of each exit stairs on all floors. Having handrails on one side of said staircase, may pose as a falling hazard during evacuation.	Provide handrails on both sides of the exit stair. New 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.	Within 3 months
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F-12	Means of Egress	Electrical DB panel has been found in the aisles on production floor. Location: On 1st floor (North side) of Famkam Fashion Building.	Remove the electrical DB panel from the aisles or exit stair to a safe location.	Within 1 month
				
F-13	Means of Egress	Fire evacuation maps are not posted at the entrance to each exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-14	Means of Egress	Building did not have stair designation signs and occupant load signs at the required locations.	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month

F-15	Means of Egress	Aisles mark was not provided on several locations on ground floor of Famkam Fashion Building.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 1 month
 				

F-16	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: On several floors of Famkam Fashion Building.	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-17	Egress Lighting	The directional signs are not provided where there is a change in direction and where the continuation of the egress path is not obvious. Location: On all floors of Famkam Fashion Building.	Install 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 were not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in the accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 3 months
F-19	Fire Alarm & Detection system	Fire alarm and detection system installation was going on which requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit the fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the buildings in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner 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 within 2 months, Install within 4 months



F-20	ITM of Fire Alarm & Detection system	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 NFPA 72 and RSC Technical Guidelines (Standard).	Within 1 month (after installation)
F-21	Fire Protection System	The existing building has an occupied floor greater than 10 meter (33 feet) and is not provided (installation is ongoing) with standpipe protection.	Install a new class III standpipe system, fire department connection and fire pump system in accordance with NFPA 13, 14, 20, 22 and RSC Technical Guideline (Standard).	Design within 3 months, Install within 6 months
 The bottom row of the table contains three photographs. The first photo on the left shows a red fire pump assembly with various pipes and valves, with a timestamp of 28.06.2022 14:45. The middle photo shows a red fire hose cabinet mounted on a wall, with a fire hose visible inside, and a timestamp of 28.06.2022 13:19. The third photo on the right shows a brick building under construction with a fire hose connection and a timestamp of 28.06.2022 15:36.				

F-22	ITM of Fire Protection System	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20 and RSC Technical Guideline (Standard).	Inspect, test and maintain the fire pump in accordance with NFPA 20 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 month (after installation)
F-23	ITM of Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 25 or as per the RSC Technical Guidelines (Standard).	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and the RSC Technical Guidelines (Standard) (After installation).	Within 1 month (after installation)
F-24	ITM of Fire 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 onsite, in accordance with NFPA 10 and the RSC Technical Guidelines (Standard).	Within 3 month
F-25	Egress Lighting	Exit signs are not provided at exit. Location: Admin Building and Medical Building.	Provide exit signs above all exits to the exterior and all doors to the exit stair.	Within 1 month

