

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Al-Muslim Apparels Ltd (New building)

RSC ID: 25531

Address: ZIRABO, SAVAR, DHAKA-1341, BANGLADESH

[Geographic Location: 23.92476, 90.30921](#)

Other Factories: Al-Muslim Apparels Ltd. [RSC ID: 24035];
Al-Muslim Apparels Ltd. (Extension) [RSC ID: 24554]



Inspected By: Mohammad Anayet Hossain.

Date: 06-Mar-2024

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Introduction:

Al-Muslim Apparels Ltd (New building) was surveyed for fire safety on 6th March, 2024 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 is one (01) no of structure in the factory compound under this RSC ID: 25531 where approval authority of the structure are Union Parishad (Airport). The building are as below:

Factory Building Name(s):

B#1	Main Building-2 (4-Storied- B+G+2)	Type of construction: RCC Year of construction Jan-2022 to Dec-2023 (Up to partial-3rd floor) Construction period: Interim Building Building approval from: Union Parishad Building approval date: 17-Nov-2019
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Factory Address: EAST NARSINGHPUR, ASHULIA, SAVAR, DHAKA.

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:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	The exit stair enclosures are not properly separated from work areas and other spaces on each floor by fire-rated construction. Location: Main Building-2.	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. 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.	3 Months

				
F-2	Fire Rated Construction	Storage rooms discharges directly into exit stair enclosure. Location: Main Building-2.	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 room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	3 Months
				

F-3	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction. Location: Main Building-2.	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. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: Where the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m2 (1000 ft2) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage.	3 Months
				

F-4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Main Building-2.	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor level or 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.	3 months
				
F-5	Fire Rated Construction	Handrails at open side acting as a guard in the exit stair where the height of the handrails found less than 42 in. Guards shall not be less than 42 inch to avoid falling hazard. Location: Main Building-2.	Minimum guard height shall be 42 in & Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	3 Months

				
F-6	Fire Rated Construction	Handrails are not provided on both sides of the exit stair. Location: Main Building-2.	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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	3 Months
				

F-7	Means of Egress	Inadequate aisle marking is provided. Location: Main Building-2	Provide minimum aisle widths of 36-inch. All the aisles shall be free from any kind of obstruction.	3 Months
F-8	Means of Egress	Building did not have Evacuation map, stair designation signs and occupant load signs at required locations on all floors. Location: Main Building-2	Provide Evacuation map, stair designation signs and occupant load signs at required locations.	1 Month
F-9	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors. Location: Main Building-2	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.	3 Months
F-10	Emergency Lighting	Exit signage was not provided along a path of egress. Location: Main Building-2	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	3 Months

F-11	Inspection Testing and Maintenance of Emergency lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with RSC technical guidelines (standard).	Inspect, test and maintain the emergency lighting system in accordance with RSC technical guidelines (standard). Keep written records on-site.	1 Month
F-12	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards. Location: Main Building-2.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. 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 building in accordance with review comment, Accord/ 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.	Design Review within 2 months and installation within 4 months.

F-13	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	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. (After Installation)	Within 1 Month after installation.
F-14	Fire Suppression System (SUPS)	The existing building has an occupied floor greater than 10 meter (33 feet) and is not provided with standpipe protection. Fire pump, water supply & standpipe system installation is required to confirm compliance with NFPA 14, 20, 22, 25 and RSC standards/Technical guideline.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review. Once reviewed, install or modify the sprinkler, standpipe system and pump throughout the building in accordance with RSC standard and NFPA 13, 14 and 20. The factory management shall contact RSC to conduct the final acceptance testing after the installation, testing & commissioning.	Design Review within 2 Months and installation within 4 Months.
F-15	Inspection Testing and Maintenance of Fire Suppression System (SUPS) (ITM)	Inspection, testing and maintenance of the standpipe system is not found in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.