

FIRE SAFETY INSPECTION REPORT

Muazuddin Textile Limited (New Unit)

ACCORD ID: 23225

235/236 East Chandura, Shafiqur, P.S. Kaliakore, Gazipur, Bangladesh.

Other Factories: None



Inspected By: Anayet Hossain & A N Faisal Ahmed

Date: 21 May, 2018

Fire Safety Inspection Report

Factory Name: Muazuddin Textile Limited (New Unit)

Introduction:

Muazuddin Textile Limited (New Unit) was surveyed for fire safety on 21 May, 2018 by the Accord 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 Accord. 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 Accord 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): 1. 7 story RCC building (Production Building, Unit o2), partial prefabricated steel structure.
2. Two story RCC building(Utility Building, Unit o2)

Factory Address: 235/236 East Chandura, Shafiqur, P.S. Kaliakore, Gazipur, Bangladesh.

Points of contact:

<p>Dewan Md. Abdul Mannan General Manager (Admin & HR) Cell: +88-01730-798595</p> <p>Muazuddin Textile Ltd.</p>	<p>Md. Nesar Hasan Khan (Sohel) Deputy General Manager (HR & Comp.) Cell: +88-01714-259169</p> <p>Muazuddin Textile Ltd.</p>
	



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 Accord for approval.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy .	<p>Provide defined storage areas and limit the storage arrangement as follows:-</p> <ol style="list-style-type: none"> 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. <p>OR</p> <ol style="list-style-type: none"> 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction. 	Within 3 months





F-2	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas (Location: 1st floor, 3rd floor packing section, 6th floor)	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
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F-3	Fire Rated Construction	The exit stairs are not separated from [work areas & other spaces] on each floor by fire-rated construction.	<p>Stairs 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. Ensure that the fire doors are self-closing, positive latching and that they are provided with fire exit (panic) hardware where serving production floors.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p>	Within 3 months
				
F-4	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location: Electrical riser.	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-5	Fire Rated Construction	Unsealed elevator shafts are located inside the working place at all floors of production building.	Provide a minimum 2-hr fire-rated elevator shaft to separate from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation.	Within 3 months
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F-6	Exit Capacity	Exit capacity is not adequate for the occupant load. Location: Second Floor (Sewing Section), Available exit capacity: 387 & occupant load: 459	1. Reduce occupant load to not more than available exit capacity. Or 2. Provide additional exits to increase exit capacity.	Immediate
F-7	Egress	Storage was located in the exit stair & egress paths. Location: Stair, production floor	Remove all storage from exit stairs and egress paths.	Immediate



F-8	Egress	Egress doors/gates with locking features not complying with NFPA 101 are provided at [building exits, along egress routes, exit discharge]	Remove locking features from all egress doors/gates. If locks are required for security reasons, utilize specialized door locking features complying with NFPA 101.	Immediate
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F-09	Egress	Stair designation, occupant load signage are not posted properly on each stair door & location.	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in both English and Bengali language. 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-10	Hazardous Storage Area	Hazardous materials / flammable liquid storage area is not separated by fire-rated construction . Location: beside utility building (Unit-02)	Separate the hazardous materials / flammable liquid storage room by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations	Within 3 months





F-11	Fire Rated Construction	Prayer room and dining area is not separated from the production area with fire rated assemblies Location: 6th Floor.	Remove the assembly area from the production floor & relocate it in a safe location OR provide 2-hr fire-rated separation with production area having minimum 2 direct exit access.	Within 3 Months
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F-12	Fire Alarm System	The existing fire alarm system is not a listed system and does not provide automatic alarm and notification features consistent with acceptable standards.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 2 month and installation within 6 months
				
F-13	Fire Protection System	The existing high-rise building with an occupiable floor greater than 23 m (75 ft) above the finished grade is not protected with an approved automatic sprinkler system.	Provide an automatic sprinkler protection throughout the building in accordance with NFPA 13.	Design with in 02 months & Installation within 9 months.
F-14	Fire Protection System	Standpipe system installation required as per NFPA 14, 20 and ACCORD standards	Provide standpipe & hose system throughout the building in accordance with NFPA 14, 20 and accord standard.	Design with in 02 months & Installation within 9 months.





F-15	Egress Lighting	Manual on-off switch facility available for emergency lights	Remove manual on/off switches from emergency lighting units to prevent them from being switched off.	Within 1 month
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F-16	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
F-18	Fire Extinguishers ITM	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 ACCORD standards.	Within 3 months



F-19	Fire Rated Construction	Heat producing equipment is not separated by fire-rated construction. Location: Ground floor [Stanter Machine (gas fuel fired)]	Separate heat producing machine by a minimum 1-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
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F-20	Fire Rated Construction	Main building has 2 parts. One part is RCC construction, which is continued ground to top & another part is non-rated structures, which is continued from ground to forth floor and does not provide fire resistance rated barrier.	Provide fire-resistive rated construction barriers between floors following section 4.4 and Table 4.4.1 of the Accord 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 3 months
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