

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Mega Yarn Dyeing Mills Ltd. (Expansion) & Mega Fashion Wear Ltd.

Factory ID: 24157

ADDRESS: Sardagonj, Gabindabari, Kashimpur, Gazipur

Other Factories: Mega Yarn Dyeing Mills Ltd_9507



Inspected By: Md. Atick Al Zaman & Mahfuza Khanom

Date: 1st and 16th Jun 2021

Fire Safety Inspection Report

Factory Name: Mega Yarn Dyeing Mills Ltd. (Expansion) & Mega Fashion Wear Ltd

Introduction:

Mega Yarn Dyeing Mills Ltd. (Expansion) & Mega Fashion Wear Ltd. was surveyed for fire safety on 1st and 16th June, 2021 by The RSC Inspection Team. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this 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. 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

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
1	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas & floors. Location: Ground floor, 1st & 4th floor.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months



2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction.	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months
---	-------------------------	--	--	-----------------



3	Fire Rated Construction	The exit stairs are not separated from other occupancy on each floor by fire rated construction.	<p>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. The clearance under the bottom of a fire door shall be a maximum of 3/4 in. (19 mm). Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. Provide vestibules to separate any storage areas. If fire 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 reentry unless it meets ACCORD standard 6.8.3.1.</p>	Within 3 months
---	-------------------------	--	---	-----------------



4	Fire Rated Construction	Elevator is open into exit stair enclosure. Location: Stair-3	Modify the elevator and stair enclosure arrangement in a way to satisfy Accord standard 6.14.3. Elevator shall not open into an exit enclosure.	Within 4 months
---	-------------------------	--	---	-----------------




5	Egress	Storage was located in the exit stair. Location: Stair-3	Remove all storage from exit stairs.	Immediately
---	--------	---	--------------------------------------	-------------



6	Egress	Doors along means of egress are provided with non compliant locking system. Location: 1st floor, Ground floor	<ol style="list-style-type: none"> 1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons. 	Immediately
---	--------	--	---	-------------



7	Egress	Egress door serving 50 or more occupants but does not swing in the direction of egress travel. Location: Ground floor main exit.	Modify swing direction of egress doors to the direction of egress travel. Doors serving an occupant load of more than 50 shall swing in the direction (out-ward) of egress travel .	Within 1 month
				
8	Egress	Aisles mark is missing and width of aisles is less than 0.9m (36-in.).	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months



9	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
---	-----------------	--	--	-----------------



10	Egress Lighting	Exit signage not illuminated during testing (burned out, broken, etc.).	Regularly inspect all exit signage as per Accord standard and replace/install lights as needed to illuminate signs.	Within 1 month
----	-----------------	---	---	----------------



11	Inspection, testing, and maintenance of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The Accord standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The Accord standard. Keep written records on-site.	Within 3 months
12	Fire Alarm & Detection System	Fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval; modification (if required) shall have to done as per the reviewed design and standard.	Design within 2 months, installation /modification within 4 months



13	Inspection, Testing, and Maintenance of the Fire Detection & Alarm 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.	Within 1 month (After installation)
14	Fire Protection	Fire pump, water supply & sprinkler system installation requires detailed review to confirm compliance with NFPA 13, 14, 20, 22, 25 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval; modification (if required) shall have to done as per the reviewed design and standard.	Design within 2 months, installation /modification within 6 months



15	Inspection, Testing, and Maintenance of the Fire Protection System	Inspection, testing, and maintenance of the automatic sprinkler system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the automatic sprinkler system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month (After installation)
16	Inspection, Testing, and Maintenance of the Fire Protection System	Inspection, testing, and maintenance of the fire pump system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the fire pump system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month (After installation)