

FIRE SAFETY INSPECTION REPORT

Brothers Fashion Ltd.

ACCORD ID: 12620

**Redwan Tower, Holding-1, Block-B, Ward-15, Vogra
(23.983865, 90.381609)**

Other Factories: None



**Inspected By: Nusrat Hossain Trisha, Nasif Javed Tofa
Date: 16 October, 2016**

Fire Safety Inspection Report

Factory Name: Brothers Fashion Ltd.

Introduction:

Brothers Fashion Ltd. was surveyed for fire safety on 16 October, 2016 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 storey RCC building (Main Production Building)
2. Single storey shed building (Utility Building)

Factory Address: Redwan Tower, Holding-1, Block-B, Ward-15, Vogra

Points of contact:

<p>Md. Emran Hossain Head of Compliance Brothers Fashion Ltd. Contact No: 01793-529903 Email: emran@team.com.bd Fax: +88027911159</p>	<p>Md. Kutub Ul Alam Sr. General Manager Brothers Fashion Ltd. Contact No: 01714-132321 Email: kutub@brothersfashion-bd.com</p>
	



Findings & Recommendations :

Following table summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

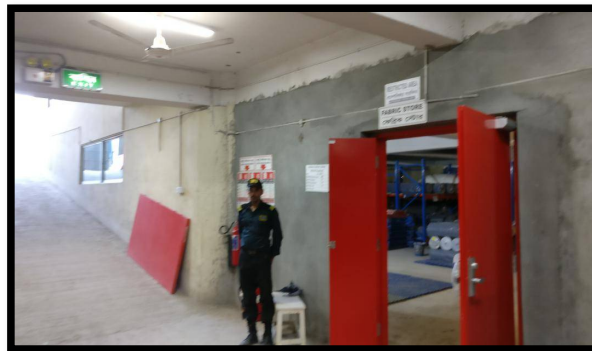
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Boiler, Generator, Compressor, Diesel Storage & Transformer room are not properly separated by fire rated construction with other Occupancies/Areas. Location: Basement & ground floor. <u>Note</u> : Fire separation work was going on during the inspection.	Boiler/ Generator/ Compressor/ Diesel storage/ Transformer room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months

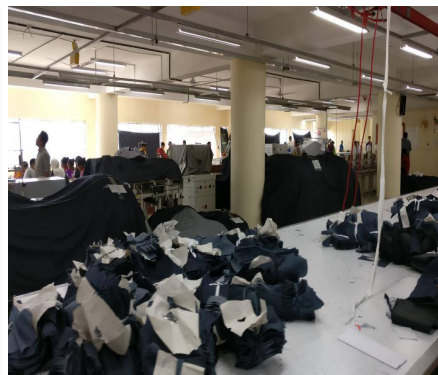




F-2	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas (Location: Ground Floor, basement)</p> <p>Note: Fire separation work is going on. Interfacing with FACP for the doors are required as factory is keeping the doors open.</p>	<p>Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction. Unprotected openings shall have to be sealed.</p>	Within 3 months
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F-3	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy; location: 1st floor, 2nd floor & 5th floor	<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. 	Within 3 months
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F-4	Fire Rated Construction	<p>The exit stairs are not properly separated from [work areas, other spaces] on each floor by fire-rated construction.</p> <p>Note: Fire separation work is going on. Interfacing with FACP for the doors are required as factory is keeping the doors open.</p>	<p>Stair 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
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Unprotected opening on staircase

F-5	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed.</p> <p>Location: Electrical riser north side of the building.</p>	<p>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.</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3 months
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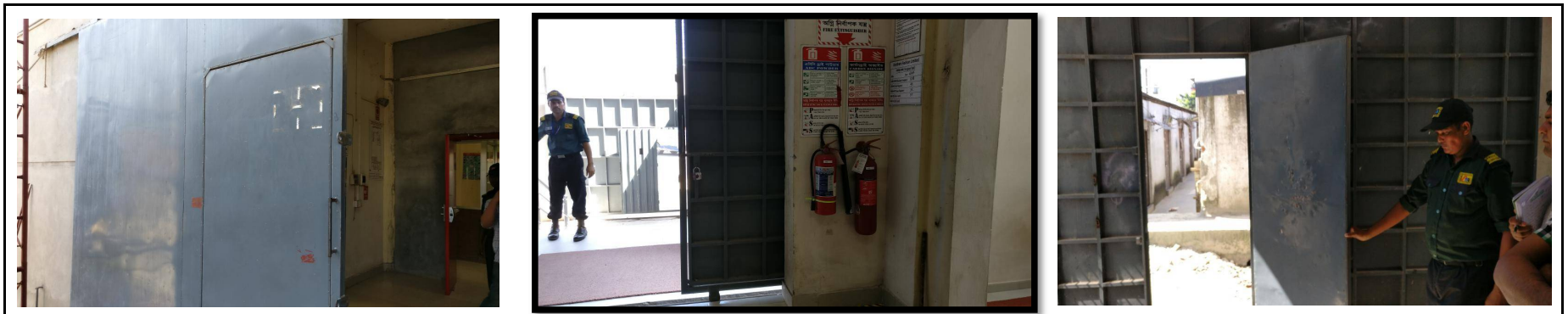


F-6	Egress	Doors along means of egress are provided with non compliant locking system at ground floor.	<ol style="list-style-type: none"> 1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 	Immediately
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F-7	Egress	Non compliant gates/ Sliding doors are provided at ground floor [building exits, along egress routes, exit discharge]	<p>Replace all non-compliant gates along the means of egress with side-hinged, swinging egress doors.</p> <p>If locks are required for security reasons, utilize specialized door locking features complying with NFPA 101.</p>	Within 1 month
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F-8	Egress	Storage (IPS & others) was located in the exit stairwell. Location: Ground floor.	Remove all storage from exit stairs and egress paths.	Immediately
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F-9	Egress	Storage was located in the egress path. Location: Ground floor & 1st floor	Keep egress paths clear of storage.	Immediately
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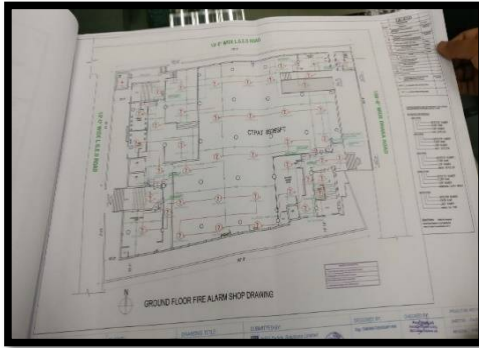
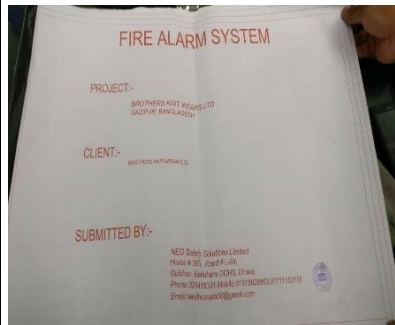




F-10	Egress	Exit capacity is not adequate for the occupant load in 6th floor (=885 including capacity of dining). Exit capacity is 619.	<ol style="list-style-type: none"> 1. Reduce occupant load to not more than available exit capacity = 619. Or 2. Provide additional exits to increase exit capacity. 	Immediately
F-11	Egress	Parapets or guards are provided in the occupiable roof is less than 42 inches	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months



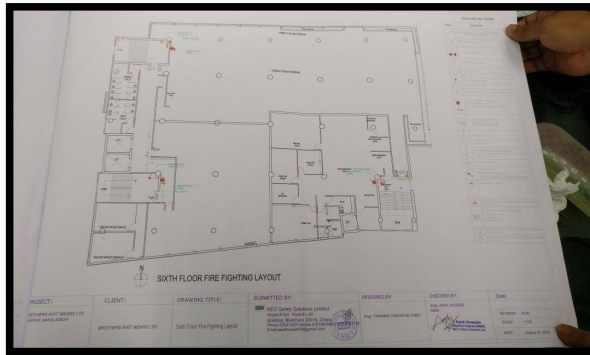
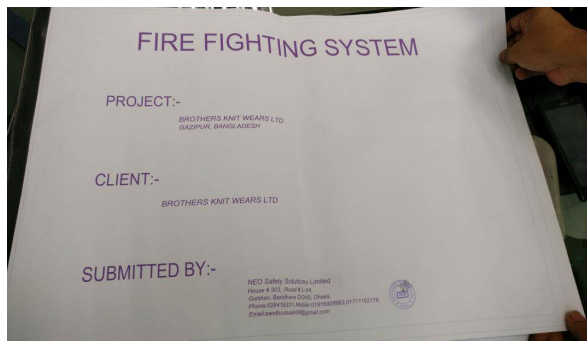
F-12	Fire Detection & Alarm System	Fire detection system installation has been just started & requires detailed review to confirm compliance with NFPA 72 and ACCORD standards	Provide listed addressable fire alarm system in accordance with NFPA 72. Submit drawings, equipment certification and other relevant documentation to the ACCORD for review and approval, installation shall have to done as per the reviewed design.	Design within 4 month; Installation within 9 months
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F-13	Fire Detection & Alarm System	Inspection, testing, and maintenance for the fire detection system is not in accordance with NFPA 72	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
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F-14	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is not protected with an approved standpipe system.	Install a new class III standpipe system & fire department connection in accordance with NFPA 14. Submit drawings, equipment certification and other relevant documentation to the ACCORD for review and approval, installation shall have to done as per the reviewed design	Design within 4 month; Installation within 9 months
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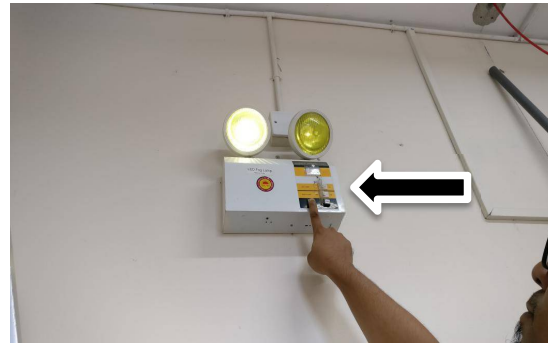


F-15	Fire Protection System	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and ACCORD standards.	Within 3 months
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F-16	Egress Lighting	Directional signs were not provided where direction of the path of travel to an exit has changed. Location: all floors	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
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F-17	Egress Lighting	Manual on-off switch facility available for emergency lights in several floors.	Remove manual on/off switches from emergency lighting units to prevent them from being switched off.	Within 1 month
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F-18	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes in all floors.	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
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